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<141> 2000-10-10

<150> PCT/US00/08979

<151> 2000-04-06

<150> 60/128,693

<151> 1999-04-09

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<151> 1999-04-26

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<170> PatentIn Ver. 2.0

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 19  
 <211> 774  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (760)  
 <223> n equals a,t,g, or c

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<220>  
 <221> SITE  
 <222> (763)  
 <223> n equals a,t,g, or c

<400> 19

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<210> 20  
 <211> 1549  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (873)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (895)  
 <223> n equals a,t,g, or c

<400> 20

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<210> 21  
 <211> 1189  
 <212> DNA  
 <213> Homo sapiens

<400> 21						
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 <212> DNA  
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<220>  
 <221> SITE  
 <222> (172)  
 <223> n equals a,t,g, or c.

<220>  
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 <222> (2457)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (2459)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

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&lt;222&gt; (2460)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 22

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&lt;210&gt; 23

&lt;211&gt; 4386

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3477)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 23

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 <223> n equals a,t,g, or c

<220>  
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 <211> 1481  
 <212> DNA  
 <213> Homo sapiens

<400> 29

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<400> 30

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 <212> DNA  
 <213> Homo sapiens

<400> 31

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 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE

<222> (1934)

<223> n equals a,t,g, or c

<400> 32

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 <212> DNA  
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&lt;211&gt; 953

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

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&lt;211&gt; 1340

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;222&gt; (851)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 36

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&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (726)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (727)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 48

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&lt;210&gt; 49

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 49

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&lt;210&gt; 50

&lt;211&gt; 2479

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (240)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 50

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&lt;210&gt; 53

&lt;211&gt; 1892

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

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<210> 54  
 <211> 1646  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1544)  
 <223> n equals a,t,g, or c

<400> 54						
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tggtcaagtg	ttgagtttag	gttctgatat	ctgctaattt	tctgcctcaa	ggtgggaaat	240
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 <211> 1558  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1443)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (1460)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1494)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1537)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1543)  
 <223> n equals a,t,g, or c

<400> 55

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<210> 56  
 <211> 753  
 <212> DNA  
 <213> Homo sapiens

<400> 56

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aaccagccc	taagcctctt	cactctaata	ttctgctcta	gagagtggaa	gctcagggaag	300



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<210> 57  
 <211> 1769  
 <212> DNA  
 <213> Homo sapiens

<400> 57						
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gccctgtatt	ttgttaacat	gtatatatgt	acaacagtgt	gtttgtaa	atataggaac	660
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<210> 58  
 <211> 626  
 <212> DNA  
 <213> Homo sapiens

<400> 58						
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catccacaga	aatttccaag	ccaatgggtt	cttttggtt	ttggttttta	tgtttgtttt	180
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gcccagaaaa	ggcagcagat	ggaccatgcc	cttgctgggt	tttccttttc	tttgggactg	300
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aagcaccggg	gcgaaaaaac	acaaaggaaa	ggaagaaatt	tatatatata	taatataaaa	540
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<210> 59  
 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<400> 59	
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attcctggca	tggatgtatt
tctttgcaat	gcattgtatg
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	360
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	600
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<210> 60  
 <211> 627  
 <212> DNA  
 <213> Homo sapiens

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gctagggtgag	gggaactgtt
tccatagagg	agaacaagca
cagattccta	atctcttgct
tgtaatccag	aatattagga
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gaggagttta	aaaaaaaaaa
	aaaaaaa
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	420
	480
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	600
	627

<210> 61  
 <211> 632  
 <212> DNA  
 <213> Homo sapiens

<400> 61	
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	cgcgctgacg
	ttgttcaacc
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	ccctcagtgc
	60
	120
	180
	240
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<210> 62  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<400> 62						
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<210> 63  
 <211> 1345  
 <212> DNA  
 <213> Homo sapiens

<400> 63						
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<210> 64  
 <211> 773  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (11)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (51)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (53)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (69)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (112)  
 <223> n equals a,t,g, or c

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<210> 65  
 <211> 1569  
 <212> DNA  
 <213> Homo sapiens

<220>

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<221> SITE  
 <222> (282)  
 <223> n equals a,t,g, or c

<400> 65

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<210> 66  
 <211> 2657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (179)  
 <223> n equals a,t,g, or c

<400> 66

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<210> 67  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1327)  
 <223> n equals a,t,g, or c

<400> 67						
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<210> 68  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (927)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<400> 68							
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<210> 69  
 <211> 1799  
 <212> DNA  
 <213> Homo sapiens

<400> 69							
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tcattttaca	gttttttctt	ttgttgtagt	tgcttttttt	gggtgttatat	ctgagaatct		240
gttgctcatc	ccaaggtcat	gaagattttac	ctgtatgtta	tcttctaaga	gttttatgat		300
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<210> 70  
 <211> 1984  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
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accg						1984

<210> 71  
 <211> 2084  
 <212> DNA  
 <213> Homo sapiens

<400> 71						
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&lt;211&gt; 1538

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

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&lt;213&gt; Homo sapiens

&lt;400&gt; 79

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&lt;211&gt; 2636

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<400> 83						
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<210> 84  
 <211> 655  
 <212> DNA  
 <213> Homo sapiens

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<210> 85  
 <211> 2410  
 <212> DNA  
 <213> Homo sapiens

<400> 85						
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 <212> DNA  
 <213> Homo sapiens

<400> 86						
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 <211> 1259  
 <212> DNA  
 <213> Homo sapiens  
  
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 <221> SITE  
 <222> (4)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> SITE  
 <222> (18)  
 <223> n equals a,t,g, or c

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 <211> 931  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (717)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (718)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

10050704.011802

&lt;400&gt; 89

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&lt;210&gt; 90

&lt;211&gt; 1183

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 90

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&lt;210&gt; 91

&lt;211&gt; 1881

"011802" 407032

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (8)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (48)  
<223> n equals a,t,g, or c

<400> 91

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<210> 92  
<211> 1433  
<212> DNA  
<213> Homo sapiens

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&lt;400&gt; 92

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&lt;210&gt; 93

&lt;211&gt; 2454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2317)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 93.

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&lt;210&gt; 94

&lt;211&gt; 1775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (820)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 94

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&lt;210&gt; 95

&lt;211&gt; 1379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

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&lt;210&gt; 96

&lt;211&gt; 700

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

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 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
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 20 25 30  
 Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala  
 35 40 45  
 Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val  
 50 55 60  
 Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly  
 65 70 75 80  
 Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu  
 85 90 95  
 Gly Val Ala Gly Leu Val Arg Arg Arg Arg Arg Tyr Ala Leu Ser Gly  
 100 105 110  
 Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro  
 115 120 125  
 Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr  
 130 135 140  
 Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val  
 145 150 155 160  
 Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg  
 165 170 175  
 Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu  
 180 185 190  
 Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His  
 195 200 205  
 Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly  
 210 215 220  
 Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly  
 225 230 235 240  
 Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln  
 245 250 255  
 Gly Pro Val Gly Asp Pro Asp Lys Tyr Arg Leu Ser Gln Asp Asp Arg  
 260 265 270

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Asp Gly Leu Gln Gln Leu Tyr Gly Lys Ala Pro Gln Thr Pro Tyr Asp  
275 280 285

Lys Pro Thr Arg Lys Pro Leu Ala Pro Pro Pro Gln Pro Pro Ala Ser  
290 295 300

Pro Thr His Ser Pro Ser Phe Pro Ile Pro Asp Arg Cys Glu Gly Asn  
305 310 315 320

Phe Asp Ala Ile Ala Asn Ile Arg Gly Glu Thr Phe Phe Phe Lys Gly  
325 330 335

Pro Trp Phe Trp Arg Leu Gln Pro Ser Gly Gln Leu Val Ser Pro Arg  
340 345 350

Pro Ala Arg Leu His Arg Phe Trp Glu Gly Leu Pro Ala Gln Val Arg  
355 360 365

Val Val Gln Ala Ala Tyr Ala Arg His Arg Asp Gly Arg Ile Leu Leu  
370 375 380

Phe Ser Gly Pro Gln Phe Trp Val Phe Gln Asp Arg Gln Leu Glu Gly  
385 390 395 400

Gly

<210> 98

<211> 205

<212> PRT

<213> Homo sapiens

<400> 98

Met Gly Thr Ala Gly Ala Met Gln Leu Cys Trp Val Ile Leu Gly Phe  
1 5 10 15

Leu Leu Phe Arg Gly His Asn Ser Gln Pro Thr Met Thr Gln Thr Ser  
20 25 30

Ser Ser Gln Gly Gly Leu Gly Gly Leu Ser Leu Thr Thr Glu Pro Val  
35 40 45

Ser Ser Asn Pro Gly Tyr Ile Pro Ser Ser Glu Ala Asn Arg Pro Ser  
50 55 60

His Leu Ser Ser Thr Gly Thr Pro Gly Ala Gly Val Pro Ser Ser Gly  
65 70 75 80

Arg Asp Gly Gly Thr Ser Arg Asp Thr Phe Gln Thr Val Pro Pro Asn  
85 90 95

Ser Thr Thr Met Ser Leu Ser Met Arg Glu Asp Ala Thr Ile Leu Pro  
100 105 110

Ser Pro Thr Ser Glu Thr Val Leu Thr Val Ala Ala Phe Gly Val Ile  
115 120 125

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Ser Phe Ile Val Ile Leu Val Val Val Val Ile Ile Leu Val Gly Val  
130 135 140

Val Ser Leu Arg Phe Lys Cys Arg Lys Ser Lys Glu Ser Glu Asp Pro  
145 150 155 160

Gln Lys Pro Gly Ser Ser Gly Leu Ser Glu Ser Cys Ser Thr Ala Asn  
165 170 175

Gly Glu Lys Asp Ser Ile Thr Leu Ile Ser Met Lys Asn Ile Asn Met  
180 185 190

Asn Asn Gly Lys Gln Ser Leu Ser Ala Glu Lys Val Leu  
195 200 205

<210> 99  
<211> 672  
<212> PRT  
<213> Homo sapiens

<400> 99  
Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Leu Ala  
1 5 10 15

Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln  
20 25 30

Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr Val Pro Arg  
35 40 45

Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile  
50 55 60

Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu Gln Leu  
65 70 75 80

Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe  
85 90 95

Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala Asn Arg Leu  
100 105 110

His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg  
115 120 125

Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe  
130 135 140

Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu  
145 150 155 160

Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu  
165 170 175

Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala  
180 185 190

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Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp  
195 200 205

Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser  
210 215 220

Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly  
225 230 235 240

Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu Arg  
245 250 255

Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp Val Ser  
260 265 270

Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly Leu Phe Pro  
275 280 285

Arg Leu Arg Leu Leu Ala Ala Arg Asn Pro Phe Asn Cys Val Cys  
290 295 300

Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His Val Thr Leu  
305 310 315 320

Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys Asn Ala Gly  
325 330 335

Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys Pro Ala Thr  
340 345 350

Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val Arg Glu Pro  
355 360 365

Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser Pro Thr Ala  
370 375 380

Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro Pro Thr Val  
385 390 395 400

Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr Cys Leu Asn  
405 410 415

Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala Cys Leu Cys  
420 425 430

Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met Gly Gln Gly  
435 440 445

Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro Arg Ser Leu  
450 455 460

Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg Val Gly Leu  
465 470 475 480

Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser Leu Arg Leu  
485 490 495

Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val Thr Leu Arg

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500

505

510

Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu Arg Pro Asn  
 515 520 525

Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly Arg Val Pro  
 530 535 540

Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His  
 545 550 555 560

Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn Leu Pro Leu  
 565 570 575

Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala  
 580 585 590

Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met Ala Ala Ala  
 595 600 605

Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu  
 610 615 620

Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala  
 625 630 635 640

Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp  
 645 650 655

Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile  
 660 665 670

&lt;210&gt; 100

&lt;211&gt; 386

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 100

Met Lys Phe Gln Gly Pro Leu Ala Cys Leu Leu Ala Leu Cys Leu  
 1 5 10 15

Gly Ser Gly Glu Ala Gly Pro Leu Gln Ser Gly Glu Glu Ser Thr Gly  
 20 25 30

Thr Asn Ile Gly Glu Ala Leu Gly His Gly Leu Gly Asp Ala Leu Ser  
 35 40 45

Glu Gly Val Gly Lys Ala Ile Gly Lys Glu Ala Gly Gly Ala Ala Gly  
 50 55 60

Ser Lys Val Ser Glu Ala Leu Gly Gln Gly Thr Arg Glu Ala Val Gly  
 65 70 75 80

Thr Gly Val Arg Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly

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95

Ile Pro  
385

<210> 101  
 <211> 743  
 <212> PRT  
 <213> Homo sapiens

<400> 101

Met Asn Val Ser Trp Ile Ser Leu Arg Arg Arg Ser Phe Arg Ala Phe  
 1 5 10 15

Gly Arg Val Trp Thr Cys Ser Gly Leu Leu Gln Met Thr Ser Ile Lys  
 20 25 30

Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys Arg  
 35 40 45

Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln Arg  
 50 55 60

Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu  
 65 70 75 80

Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln  
 85 90 95

Asp Leu His Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His  
 100 105 110

Gln His Met Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His  
 115 120 125

Glu Arg Leu Gln Tyr Tyr Phe Thr Leu Leu Glu Asn Cys Gly Cys Ala  
 130 135 140

Asp Leu Gly Asn Cys Ala Ile Lys Pro Glu Thr His Ile Arg Leu Leu  
 145 150 155 160

Lys Lys Phe Lys Val Val Ala Ser Gly Leu Asn Tyr Lys Lys Leu Thr  
 165 170 175

Asp Glu Asn Met Ser Pro Leu Glu Ala Leu Glu Pro Val Leu Ser Ser  
 180 185 190

Gln Asn Ile Leu Ser Ile Ser Lys Leu Val Pro Lys Ile Pro Glu Lys  
 195 200 205

Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp Leu Gln  
 210 215 220

Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val Pro Gly  
 225 230 235 240

Ser Ser Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe  
 245 250 255

Asp Arg Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr  
 260 265 270

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Phe Ser Pro Lys Ala Val Thr Lys Leu Ser Val Glu Ala Arg Lys Glu  
 275 280 285  
 Met Thr Arg Lys Ala Ile Lys Thr Val Lys His Phe Ile Glu Lys Pro  
 290 295 300  
 Arg Lys Arg Asn Ser Glu Asp Glu Ala Gln Glu Ala Lys Asp Ser Lys  
 305 310 315 320  
 Val Thr Tyr Ala Asp Thr Leu Asn His Leu Glu Lys Ser Leu Ala His  
 325 330 335  
 Leu Glu Thr Leu Ser His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu  
 340 345 350  
 Gln Glu Thr Leu Gln Lys Tyr Ser His Leu Tyr Asp Leu Ser Arg Ser  
 355 360 365  
 Glu Lys Glu Lys Leu His Asp Glu Ala Val Ala Ile Cys Leu Asp Gly  
 370 375 380  
 Gln Pro Leu Ala Met Ile Gln Gln Leu Leu Glu Val Ala Val Gly Pro  
 385 390 395 400  
 Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala Ile Met Lys Ile  
 405 410 415  
 Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly Gly Pro Arg Asp  
 420 425 430  
 Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser Val  
 435 440 445  
 Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp Leu  
 450 455 460  
 Arg Pro Phe Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His  
 465 470 475 480  
 Val Leu Gln Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser  
 485 490 495  
 Lys Leu Leu Val Phe Phe Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp  
 500 505 510  
 Pro Gln Arg Gln Val Asp Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg  
 515 520 525  
 Tyr Cys Leu Phe Met Glu Leu Leu Glu Ser Ser His His Glu Ala Glu  
 530 535 540  
 Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp Pro Pro Met Lys Ser  
 545 550 555 560  
 Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg Leu Ala Thr Val Met  
 565 570 575

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Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly Asn Glu Val  
580 585 590

Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met Leu Pro Ala  
595 600 605

Glu Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu  
610 615 620

Leu Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu His Leu His  
625 630 635 640

Glu Met Ala Leu Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser  
645 650 655

Asn Cys Asp Gln Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu  
660 665 670

Val Lys Cys Val Ser Thr Pro Phe Tyr Pro Arg Ile Val Asp His Leu  
675 680 685

Leu Ala Ser Leu Gln Gln Gly Arg Trp Asp Ala Glu Glu Leu Gly Arg  
690 695 700

His Leu Arg Glu Ala Gly His Glu Ala Glu Ala Gly Ser Leu Leu Leu  
705 710 715 720

Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr Phe Ser Thr Ala Leu  
725 730 735

Arg Ala Ala Gln His Trp Val  
740

<210> 102

<211> 235

<212> PRT

<213> Homo sapiens

<400> 102

Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe  
1 5 10 15

Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro  
20 25 30

Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly  
35 40 45

Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln  
50 55 60

Ser Gln Pro Pro Glu Ala Leu Ser Ser Thr Gln His Thr Gly Gln Pro  
65 70 75 80

Pro Gly Gln Pro Ser Ala Pro Ser Gln Leu Ser Ala Pro Arg Arg Tyr  
85 90 95

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Ser Ser Ser Leu Ser Pro Ile Gln Ala Pro Asn His Pro Pro Pro Gln  
100 105 110

Pro Pro Thr Gln Ala Thr Pro Leu Met His Thr Lys Pro Asn Ser Gln  
115 120 125

Gly Pro Pro Asn Pro Met Ala Leu Pro Ser Glu His Gly Leu Glu Gln  
130 135 140

Pro Ser His Thr Pro Pro Gln Thr Pro Thr Pro Pro Ser Thr Pro Pro  
145 150 155 160

Leu Gly Lys Gln Asn Pro Ser Leu Pro Ala Pro Gln Thr Leu Ala Gly  
165 170 175

Gly Asn Pro Glu Thr Ala Gln Pro His Ala Gly Thr Leu Pro Arg Pro  
180 185 190

Arg Pro Val Pro Lys Pro Arg Asn Arg Pro Ser Val Pro Pro Pro Pro  
195 200 205

Gln Pro Pro Gly Val His Ser Ala Gly Asp Ser Ser Leu Thr Asn Thr  
210 215 220

Ala Pro Thr Ala Ser Lys Ile Val Thr Asp Val  
225 230 235

<210> 103

<211> 402

<212> PRT

<213> Homo sapiens

<400> 103

Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly  
1 5 10 15

Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro  
20 25 30

Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
35 40 45

Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
50 55 60

Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
65 70 75 80

Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
85 90 95

Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
100 105 110

Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
115 120 125

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Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
 130 135 140  
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
 145 150 155 160  
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp  
 165 170 175  
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
 180 185 190  
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
 195 200 205  
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
 210 215 220  
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
 225 230 235 240  
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
 245 250 255  
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
 260 265 270  
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
 275 280 285  
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
 290 295 300  
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
 305 310 315 320  
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
 325 330 335  
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
 340 345 350  
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
 355 360 365  
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp  
 370 375 380  
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg  
 385 390 395 400  
 Pro Leu

&lt;210&gt; 104

&lt;211&gt; 101

&lt;212&gt; PRT

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<213> Homo sapiens

<400> 104

Met Lys Gln Arg Leu Arg Gly Gln Gln Gly Phe Gln Leu Asp Val Cys  
 1 5 10 15  
 Val Ala Cys Thr Leu Leu Phe Leu Leu Leu Thr Val Asn Ser Gly Val  
 20 25 30  
 Thr Ser Arg Glu Gln Leu Gly Cys Ser Arg Pro Ser Pro Ala Gln Gly  
 35 40 45  
 Glu Gly Arg Gly Thr Cys Ser Ser Glu Gln Pro Glu Gly Gly Gly Arg  
 50 55 60  
 Ser Glu Val Val Glu Trp Phe Val Tyr Leu Thr Gly Leu Lys Gly Pro  
 65 70 75 80  
 Ser Val Phe Val Val Cys Phe Val Ser Cys Phe Ser Asp Arg Ser Ile  
 85 90 95  
 Thr Thr Asp Leu Leu  
 100

<210> 105

<211> 185

<212> PRT

<213> Homo sapiens

<400> 105

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
 1 5 10 15  
 Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
 20 25 30  
 Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
 35 40 45  
 Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp  
 50 55 60  
 Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr  
 65 70 75 80  
 Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser  
 85 90 95  
 Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly  
 100 105 110  
 Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val  
 115 120 125  
 Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly  
 130 135 140

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Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe  
145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile  
165 170 175

Ser Phe Cys Gly Asp Thr Val Glu Asn  
180 185

<210> 106

<211> 231

<212> PRT

<213> Homo sapiens

<400> 106

Met Ser Arg Ala Met Ala Leu Phe Phe Val Leu Cys Trp Ile Gln Gly  
1 5 10 15

Tyr Ser Gln Gln Lys Ser Leu Asn Asn Ala Ala Phe Ala Ser Gly Ser  
20 25 30

Asn Glu Arg Glu Glu His Leu Ala Lys Ile Phe Asp Glu Ile Leu Leu  
35 40 45

Gln Val Phe Pro Lys Phe Pro Tyr Asp Pro Ser Phe Asn Glu Ala Thr  
50 55 60

Ala Val Arg Ser Ile Thr Lys Thr Asp Met Arg Lys Gly Thr Ser Ile  
65 70 75 80

Ala Trp Asn Ser Pro Lys Pro Glu Tyr Phe Leu Gly Ser Val Asp Lys  
85 90 95

Ile Pro Asp Lys Asp His Leu Ser Glu Glu Lys Asn Phe Lys Glu Ser  
100 105 110

Cys Leu Phe Asp Arg Asp Leu Arg Glu Gln Leu Thr Thr Ile Asp Lys  
115 120 125

Glu Thr Leu Gln Gly Ala Ala Lys Pro Asp Ala His Phe Arg Thr Met  
130 135 140

Pro Cys Gly Gln Leu Leu His Phe Leu Gln Arg Asn Thr Ile Ile Ala  
145 150 155 160

Thr Val Ser Gly Val Ala Ile Leu Met Ala Ile Val Leu Leu Leu Leu  
165 170 175

Gly Leu Ala Ser Tyr Ile Arg Lys Lys Gln Pro Ser Ser Pro Leu Ala  
180 185 190

Asn Thr Thr Tyr Asn Ile Phe Ile Met Asp Gly Lys Thr Trp Trp His  
195 200 205

Asn Ser Glu Glu Lys Asn Phe Thr Lys Leu Ala Lys Lys Gln Lys Gln  
210 215 220

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Leu Lys Ser Ser Ser Cys Val  
225 230

<210> 107  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 107  
Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro  
1 5 10 15  
Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys  
20 25 30  
Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val  
35 40 45  
Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly  
50 55 60  
Val Arg Val Leu Glu Glu Gln Leu Lys Ser Val Arg Glu Lys Trp Ala  
65 70 75 80  
Gln Glu Pro Leu Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly  
85 90 95  
Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu  
100 105 110  
Ser Asp Pro Lys Tyr Leu Arg Gly Arg Thr Ala Ala Ser Pro Ala Ala  
115 120 125  
Ser Gln Thr Ser Ala Gly Ala Ser  
130 135

<210> 108  
<211> 606  
<212> PRT  
<213> Homo sapiens

<400> 108  
Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro  
1 5 10 15  
Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly  
20 25 30  
Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys  
35 40 45  
Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu  
50 55 60  
Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly  
65 70 75 80

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Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg  
 85 90 95  
 Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser  
 100 105 110  
 Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr  
 115 120 125  
 Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr  
 130 135 140  
 Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp  
 145 150 155 160  
 Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe  
 165 170 175  
 Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu  
 180 185 190  
 Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp  
 195 200 205  
 Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp  
 210 215 220  
 Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile  
 225 230 235 240  
 Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile  
 245 250 255  
 Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu  
 260 265 270  
 Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn  
 275 280 285  
 Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg  
 290 295 300  
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu  
 305 310 315 320  
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His  
 325 330 335  
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr  
 340 345 350  
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly  
 355 360 365  
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser  
 370 375 380

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Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala  
385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu  
405 410 415

Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile  
420 425 430

Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys  
435 440 445

Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val  
450 455 460

Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val  
465 470 475 480

Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr  
485 490 495

Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly  
500 505 510

Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp  
515 520 525

Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu  
530 535 540

Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
545 550 555 560

Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
565 570 575

Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
580 585 590

Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
595 600 605

<210> 109  
<211> 310  
<212> PRT  
<213> Homo sapiens

<400> 109  
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
35 40 45

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Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
 50 55 60  
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
 65 70 75 80  
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
 85 90 95  
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
 100 105 110  
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
 115 120 125  
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
 130 135 140  
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
 145 150 155 160  
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
 165 170 175  
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
 180 185 190  
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
 195 200 205  
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
 210 215 220  
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
 225 230 235 240  
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
 245 250 255  
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
 260 265 270  
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
 275 280 285  
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
 290 295 300  
 Lys Ser Ser Phe Val Ile  
 305 310

<210> 110  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 110

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Met Glu Lys Cys Leu Gln Asp Phe Cys Leu Pro Phe Leu Arg Ile Thr  
 1 5 10 15  
 Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro Ser Cys Gln  
 20 25 30  
 Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly Leu Leu Pro  
 35 40 45  
 Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser Cys Leu Asp  
 50 55 60  
 Trp Pro Val Pro Ala Phe Asp Ile Ile Thr Gln Trp Cys Phe Glu Ile  
 65 70 75 80  
 Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala Leu Leu Ile  
 85 90 95  
 Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu Pro Glu Asn  
 100 105 110  
 Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys Ser Val Cys  
 115 120 125  
 Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys Gly Thr Phe  
 130 135 140  
 Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr Cys Glu Cys  
 145 150 155 160  
 Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile Phe Leu Leu  
 165 170 175  
 Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg Phe Cys Leu  
 180 185 190  
 Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp Arg Asp Leu  
 195 200 205  
 Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr Lys Val Leu  
 210 215 220  
 Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn Lys Arg Trp  
 225 230 235 240  
 Gly Pro His Tyr Asn Gly Leu  
 245

<210> 111  
 <211> 559  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser  
 1 5 10 15

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Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met  
 20 25 30  
 Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp  
 35 40 45  
 Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr  
 50 55 60  
 Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr  
 65 70 75 80  
 Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro  
 85 90 95  
 Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln  
 100 105 110  
 Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr  
 115 120 125  
 Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly  
 130 135 140  
 Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys  
 145 150 155 160  
 Val Tyr Ala Thr Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu  
 165 170 175  
 Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val  
 180 185 190  
 Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro  
 195 200 205  
 Ile Gln Tyr Cys Val Val Ile Asn Lys Glu His Asn Phe Lys Ser Leu  
 210 215 220  
 Cys Ala Val Glu Ala Lys Leu Ser Ala Asp Asp Ala Phe Met Met Ala  
 225 230 235 240  
 Pro Lys Pro Gly Leu Asp Phe Ser Pro Phe Asp Phe Ala His Phe Gly  
 245 250 255  
 Phe Pro Ser Asp Asn Ser Gly Lys Glu Arg Ser Phe Gln Ala Lys Pro  
 260 265 270  
 Ser Pro Lys Leu Gly Arg His Val Tyr Ser Arg Pro Lys Val Asp Ile  
 275 280 285  
 Gln Lys Ile Cys Ile Gly Asn Lys Asn Ile Phe Thr Val Ser Asp Leu  
 290 295 300  
 Lys Pro Asp Thr Gln Tyr Tyr Phe Asp Val Phe Val Val Asn Ile Asn  
 305 310 315 320  
 Ser Asn Met Ser Thr Ala Tyr Val Gly Thr Phe Ala Arg Thr Lys Glu

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325

330

335

Glu Ala Lys Gln Lys Thr Val Glu Leu Lys Asp Gly Lys Ile Thr Asp  
340 345 350

Val Phe Val Lys Arg Lys Gly Ala Lys Phe Leu Arg Phe Ala Pro Val  
355 360 365

Ser Ser His Gln Lys Val Thr Phe Phe Ile His Ser Cys Leu Asp Ala  
370 375 380

Val Gln Ile Gln Val Arg Arg Asp Gly Lys Leu Leu Leu Ser Gln Asn  
385 390 395 400

Val Glu Gly Ile Gln Gln Phe Gln Leu Arg Gly Lys Pro Lys Ala Lys  
405 410 415

Tyr Leu Val Arg Leu Lys Gly Asn Lys Lys Gly Ala Ser Met Leu Lys  
420 425 430

Ile Leu Ala Thr Thr Arg Pro Thr Lys Gln Ser Phe Pro Ser Leu Pro  
435 440 445

Glu Asp Thr Arg Ile Lys Ala Phe Asp Lys Leu Arg Thr Cys Ser Ser  
450 455 460

Ala Thr Val Ala Trp Leu Gly Thr Gln Glu Arg Asn Lys Phe Cys Ile  
465 470 475 480

Tyr Lys Lys Glu Val Asp Asp Asn Tyr Asn Glu Asp Gln Lys Lys Arg  
485 490 495

Glu Gln Asn Gln Cys Leu Gly Pro Asp Ile Arg Lys Lys Ser Glu Lys  
500 505 510

Val Leu Cys Lys Tyr Phe His Ser Gln Asn Leu Gln Lys Ala Val Thr  
515 520 525

Thr Glu Thr Ile Lys Gly Leu Gln Pro Gly Lys Ser Leu Pro Ala Gly  
530 535 540

Cys Leu Cys His Arg Thr Trp Gly Ala Leu Cys Lys Val Ser Glu  
545 550 555

&lt;210&gt; 112

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

Met Ser Pro Ser His Ser Pro Val Ser Cys Phe Lys Leu Arg Val Leu  
1 5 10 15

Val Phe Pro Leu Pro Leu Phe Leu Gly Thr Ala Leu Cys Ser Val Trp  
20 25 30

Asp Pro Arg Ala Arg Pro Leu Gly Leu Val Ala Ala Ala Arg Pro Leu

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35

40

45

Gly Pro Ser Thr Cys Pro Ser Pro Arg Phe Pro Ala Ser Ser Ala Gly  
 50 55 60

Thr Leu Lys Leu Arg Ala Arg  
 65 70

<210> 113  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 113  
 Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly  
 1 5 10 15

Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met  
 20 25 30

Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala  
 35 40 45

Asp Glu Leu His Leu Gly Met Gly Cys Pro Ala Asn Arg Ile His Thr  
 50 55 60

Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr  
 65 70 75 80

Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Glu Leu Tyr Phe  
 85 90 95

Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys  
 100 105 110

Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn  
 115 120 125

Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr  
 130 135 140

Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu  
 145 150 155

<210> 114  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 114  
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
 1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
 20 25 30

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Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu  
165 170

<210> 115

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115

Met Ala Gly Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu  
1 5 10 15

Leu Gly Arg Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr  
20 25 30

Ala Thr Ala Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala  
35 40 45

Leu Leu Ser Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly  
50 55 60

Ser Leu Met Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro  
65 70 75 80

Leu Glu Met Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu  
85 90 95

Lys Gln Leu Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe

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100					105					110					
Leu	His	Leu	Leu	Pro	Glu	Ala	Trp	Ala	Tyr	Thr	Cys	Ser	Ala	Ser	Pro
		115					120					125			
Gly	Gly	Glu	Gly	Gln	Ser	Leu	Gln	Gln	Gln	Gln	Leu	Gly	Leu	Trp	
		130					135					140			
Val	Ile	Ala	Gly	Ile	Leu	Thr	Phe	Leu	Ala	Leu	Glu	Lys	Met	Phe	Leu
							150					155			160
Asp	Ser	Lys	Glu	Glu	Gly	Thr	Ser	Gln	Ala	Pro	Asn	Lys	Asp	Pro	Thr
				165					170					175	
Ala	Ala	Ala	Ala	Ala	Leu	Asn	Gly	Gly	His	Cys	Leu	Ala	Gln	Pro	Ala
				180					185					190	
Ala	Glu	Pro	Gly	Leu	Gly	Ala	Val	Val	Arg	Ser	Ile	Lys	Val	Ser	Gly
				195					200					205	
Tyr	Leu	Asn	Leu	Leu	Ala	Asn	Thr	Ile	Asp	Asn	Phe	Thr	His	Gly	Leu
				210					215					220	
Ala	Val	Ala	Ala	Ser	Phe	Leu	Val	Ser	Lys	Lys	Ile	Gly	Leu	Leu	Thr
							230					235			240
Thr	Met	Ala	Ile	Leu	Leu	His	Glu	Ile	Pro	His	Glu	Val	Gly	Asp	Phe
				245					250					255	
Ala	Ile	Leu	Leu	Arg	Ala	Gly	Phe	Asp	Arg	Trp	Ser	Ala	Ala	Lys	Leu
				260					265					270	
Gln	Leu	Ser	Thr	Ala	Leu	Gly	Gly	Leu	Leu	Gly	Ala	Gly	Phe	Ala	Ile
				275					280					285	
Cys	Thr	Gln	Ser	Pro	Lys	Gly	Val	Glu	Glu	Thr	Ala	Ala	Trp	Val	Leu
				290					295					300	
Pro	Phe	Thr	Ser	Gly	Gly	Phe	Leu	Tyr	Ile	Ala	Leu	Val	Asn	Val	Leu
				305					310					315	320
Pro	Asp	Leu	Leu	Glu	Glu	Glu	Asp	Pro	Trp	Arg	Ser	Leu	Gln	Gln	Leu
				325					330					335	
Leu	Leu	Leu	Cys	Ala	Gly	Ile	Val	Val	Met	Val	Leu	Phe	Ser	Leu	Phe
				340					345					350	

Val Asp

&lt;210&gt; 116

&lt;211&gt; 145

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser

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1                      5                      10                      15  
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
                          20                                      25                                      30  
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu  
                          35                                      40                                      45  
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
                          50                                      55                                      60  
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
                          65                                      70                                      75                                      80  
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
    85                                      90                                      95  
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys  
    100                                      105                                      110  
 Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe  
    115                                      120                                      125  
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala  
    130                                      135                                      140  
 Phe  
 145

<210> 117  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 117  
 Met Leu Arg Leu Thr Gln Thr Phe Phe Phe Ile Ser Gln Thr Leu Leu  
                          1                                      5                                      10                                      15  
 Asp Trp Phe Leu Ala Ala Ala Leu Ala Leu Pro Asn Leu Cys Ser Pro  
    20                                      25                                      30  
 Leu Ala Ser Asn Phe Lys Ser Arg Gln Ile Ser Ser Val Pro Ile Gln  
    35                                      40                                      45  
 Pro Ser Gln Gly Thr Ser Arg Val Ala Leu Gln Ile Trp Cys Gly Ser  
    50                                      55                                      60  
 Cys Arg Met Arg Met Ser Ser Ser Thr Ile His Ile Leu Ala Leu  
    65                                      70                                      75

<210> 118  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 118

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Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly  
 1 5 10 15  
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr  
 20 25 30  
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu  
 35 40 45  
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His  
 50 55 60  
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser  
 65 70 75 80  
 Leu Ile

<210> 119  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
 1 5 10 15  
 Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30  
 Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45  
 Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60  
 Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80  
 Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Ala Ile Ser Ala  
 85 90 95  
 Leu Lys Val Gly Ala Asp Leu Ser His Val Phe Cys Ala Ser Ala Ala  
 100 105 110  
 Ala Pro Val Ile Lys Ala Tyr Ser Pro Glu Leu Ile Val His Pro Val  
 115 120 125  
 Leu Asp Ser Pro Asn Ala Val His Glu Val Glu Lys Trp Leu Pro Arg  
 130 135 140  
 Leu His Ala Leu Val Val Gly Pro Gly Leu Gly Arg Asp Asp Ala Leu  
 145 150 155 160  
 Leu Arg Asn Val Gln Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile  
 165 170 175

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Pro Val Val Ile Asp Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro  
180 185 190

Ala Leu Ile His Gly Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val  
195 200 205

Glu Phe Ser Arg Leu Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser  
210 215 220

Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser Gln Ala Leu Gly Asn  
225 230 235 240

Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile Leu Ser Asn Gly Gln  
245 250 255

Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser Arg Arg Cys Gly Gly  
260 265 270

Gln Gly Asp Leu Leu Ser Gly Ser Leu Gly Val Leu Val His Trp Ala  
275 280 285

Leu Leu Ala Gly Pro Gln Lys Thr Asn Gly Ser Ser Pro Leu Leu Val  
290 295 300

Ala Ala Phe Gly Ala Cys Ser Leu Thr Arg Gln Cys Asn His Gln Ala  
305 310 315 320

Phe Gln Lys His Gly Arg Ser Thr Thr Thr Ser Asp Met Ile Ala Glu  
325 330 335

Val Gly Ala Ala Phe Ser Lys Leu Phe Glu Thr  
340 345

<210> 120

<211> 163

<212> PRT

<213> Homo sapiens

<400> 120

Met Ser Ser Arg Leu Ile Tyr Thr Leu Arg Cys Gly Val Phe Ala Thr  
1 5 10 15

Phe Pro Ile Val Leu Gly Ile Leu Val Tyr Gly Leu Ser Leu Leu Cys  
20 25 30

Phe Ser Ala Leu Arg Pro Phe Gly Glu Pro Arg Arg Glu Val Glu Ile  
35 40 45

His Arg Arg Tyr Val Ala Gln Ser Val Gln Leu Phe Ile Leu Tyr Phe  
50 55 60

Phe Asn Leu Ala Val Leu Ser Thr Tyr Leu Pro Gln Asp Thr Leu Lys  
65 70 75 80

Leu Leu Pro Leu Leu Thr Gly Leu Phe Ala Val Ser Arg Leu Ile Tyr  
85 90 95

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Trp Leu Thr Phe Ala Val Gly Arg Ser Phe Arg Gly Phe Gly Tyr Gly  
100 105 110

Leu Thr Phe Leu Pro Leu Leu Ser Met Leu Met Trp Asn Leu Tyr Tyr  
115 120 125

Met Phe Val Val Glu Pro Glu Arg Met Leu Thr Ala Thr Glu Ser Arg  
130 135 140

Leu Asp Tyr Pro Asp His Ala Arg Ser Ala Ser Asp Tyr Arg Pro Arg  
145 150 155 160

Pro Trp Gly

<210> 121

<211> 258

<212> PRT

<213> Homo sapiens

<400> 121

Met Tyr Ile Trp Phe Ile Ile Phe Phe Ile Gln Pro His Lys Glu Glu  
1 5 10 15

Arg Phe Leu Phe Pro Val Tyr Pro Leu Ile Cys Leu Cys Gly Ala Val  
20 25 30

Ala Leu Ser Ala Leu Gln Lys Cys Tyr His Phe Val Phe Gln Arg Tyr  
35 40 45

Arg Leu Glu His Tyr Thr Val Thr Ser Asn Trp Leu Ala Leu Gly Thr  
50 55 60

Val Phe Leu Phe Gly Leu Leu Ser Phe Ser Arg Ser Val Ala Leu Phe  
65 70 75 80

Arg Gly Tyr His Gly Pro Leu Asp Leu Tyr Pro Glu Phe Tyr Arg Ile  
85 90 95

Ala Thr Asp Pro Thr Ile His Thr Val Pro Glu Gly Arg Pro Val Asn  
100 105 110

Val Cys Val Gly Lys Glu Trp Tyr Arg Phe Pro Ser Ser Phe Leu Leu  
115 120 125

Pro Asp Asn Trp Gln Leu Gln Phe Ile Pro Ser Glu Phe Arg Gly Gln  
130 135 140

Leu Pro Lys Pro Phe Ala Glu Gly Pro Leu Ala Thr Arg Ile Val Pro  
145 150 155 160

Thr Asp Met Asn Asp Gln Asn Leu Glu Glu Pro Ser Arg Tyr Ile Asp  
165 170 175

Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr  
180 185 190

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Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu  
195 200 205

Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg  
210 215 220

Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn  
225 230 235 240

Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser  
245 250 255

Gly Gly

<210> 122

<211> 96

<212> PRT

<213> Homo sapiens

<400> 122

Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro  
1 5 10 15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys  
20 25 30

Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser  
35 40 45

Gly Ile Arg Gln Arg Ser Arg His Asp Leu Leu Gly Phe Cys Gly Cys  
50 55 60

Gln His Cys Arg Ser Phe Trp Arg Leu Arg Glu Ala Leu Glu Gly Ile  
65 70 75 80

Gly Thr Ser Cys Cys Arg Pro Pro Gly Arg Ala Gly Leu Phe Ile Phe  
85 90 95

<210> 123

<211> 72

<212> PRT

<213> Homo sapiens

<400> 123

Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala  
1 5 10 15

Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile  
20 25 30

Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe  
35 40 45

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Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val  
 50 55 60

Leu Ser Pro Gly Phe His Ser Ala  
 65 70

<210> 124  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 124  
 Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu  
 1 5 10 15  
 Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu  
 20 25 30  
 Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys Cys  
 35 40 45  
 Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu  
 50 55 60  
 Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu  
 65 70 75 80  
 Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile  
 85 90 95  
 Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser  
 100 105 110  
 Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg  
 115 120 125  
 Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln  
 130 135 140  
 Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu  
 145 150 155 160  
 Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr  
 165 170 175  
 Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu  
 180 185 190  
 Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val  
 195 200 205  
 Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro  
 210 215 220  
 Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr  
 225 230 235 240

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Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro  
245 250 255

Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly  
260 265 270

Glu Gln Cys  
275

<210> 125

<211> 627

<212> PRT

<213> Homo sapiens

<400> 125

Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu  
1 5 10 15

Leu Cys Val Phe Leu Gly Val Ser Trp Ala Gly Ala Glu Pro Leu Arg  
20 25 30

Tyr Phe Val Ala Glu Glu Thr Glu Arg Gly Thr Phe Leu Ala Asn Leu  
35 40 45

Ala Ile Asp Leu Gly Leu Gly Val Glu Glu Leu Ser Ala Arg Gly Cys  
50 55 60

Arg Ile Val Ser Asp Glu Thr Ile Gly Phe Leu Leu Asn Pro Leu  
65 70 75 80

Thr Gly Asp Leu Leu Leu Asn Glu Lys Leu Asp Arg Glu Glu Leu Cys  
85 90 95

Gly Pro Thr Glu Pro Cys Val Leu Pro Phe Gln Leu Leu Leu Glu Lys  
100 105 110

Pro Phe Gln Ile Phe Arg Ala Glu Leu Trp Val Arg Asp Ile Asn Asp  
115 120 125

His Ser Pro Val Phe Leu Asp Arg Glu Ile Thr Leu Asn Ile Leu Glu  
130 135 140

Ser Thr Thr Pro Gly Ala Thr Phe Leu Leu Glu Ser Ala His Asp Ser  
145 150 155 160

Asp Val Gly Ile Asn Asn Leu Arg Asn Tyr Thr Ile Ser Ser Asn Val  
165 170 175

Tyr Phe His Ile Asn Val His Asp Asn Gly Glu Gly Asn Val Tyr Ser  
180 185 190

Glu Leu Val Leu Asp Lys Val Leu Asp Arg Glu Glu Val Pro Glu Leu  
195 200 205

Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly  
210 215 220

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Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro  
 225 230 235 240  
 Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro  
 245 250 255  
 Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly  
 260 265 270  
 Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr  
 275 280 285  
 Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys  
 290 295 300  
 Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln  
 305 310 315 320  
 Ala Lys Asp Gly Gly Gly Leu Ser Gly Lys Cys Thr Val Val Val His  
 325 330 335  
 Val Thr Asp Ile Asn Asp Asn Pro Pro Glu Leu Leu Met Ser Ser Leu  
 340 345 350  
 Thr Ser Pro Ile Pro Glu Asn Ser Pro Glu Thr Val Val Ala Val Phe  
 355 360 365  
 Arg Ile Arg Asp Arg Asp Ser Gly Asn Asn Ala Lys Met Val Cys Ser  
 370 375 380  
 Ile Gln Asp His Leu Pro Phe Val Leu Lys Pro Ser Val Glu Asn Phe  
 385 390 395 400  
 Tyr Thr Leu Val Thr Glu Arg Ala Leu Asp Arg Glu Glu Arg Thr Glu  
 405 410 415  
 Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys  
 420 425 430  
 Thr Gln His Asn Leu Thr Val Thr Val Ser Asp Val Asn Asp Asn Ala  
 435 440 445  
 Pro Thr Phe Ser Gln Thr Thr Tyr Thr Leu Arg Val Arg Glu Asn Asn  
 450 455 460  
 Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser  
 465 470 475 480  
 Gly Ala Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro His Asp Pro  
 485 490 495  
 Gln Leu Pro Leu Gly Ser Leu Val Ser Ile Asn Ala Asp Asn Gly Gln  
 500 505 510  
 Leu Phe Ala Leu Arg Ser Leu Asp Phe Glu Ala Leu Gln Ala Phe Glu  
 515 520 525

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Phe Arg Val Gly Ala Ala Asp Arg Gly Ser Pro Ala Leu Ser Ser Gln  
530 535 540

Ala Leu Val Arg Val Leu Val Ala Asp Ala Asn Asp Asn Ala Pro Phe  
545 550 555 560

Val Leu Tyr Pro Leu Gln Asn Gly Ser Ala Pro Cys Thr Glu Leu Val  
565 570 575

Pro Arg Ala Ala Glu Ala Gly Tyr Leu Val Ala Lys Val Val Ala Val  
580 585 590

Asp Gly Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Gln Leu Leu Lys  
595 600 605

Ala Thr Glu Pro Gly Leu Phe Gly Val Trp Ala His Asn Gly Glu Val  
610 615 620

Arg Thr Ala  
625

<210> 126

<211> 51

<212> PRT

<213> Homo sapiens

<400> 126

Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro  
1 5 10 15

Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala  
20 25 30

Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala  
35 40 45

Arg Gln Thr  
50

<210> 127

<211> 74

<212> PRT

<213> Homo sapiens

<400> 127

Met Phe Thr Gly Leu Leu Ile Tyr Leu Leu Val Ser Ser Ile Leu Ile  
1 5 10 15

Ser Leu Ala Asp Arg Pro Phe Ser Ser Ile Arg Cys Leu Thr Phe Trp  
20 25 30

Val Gln Phe Ile Arg Leu Cys Tyr Ile Arg Asn Thr Ser Leu Leu Pro  
35 40 45

Met Thr Cys Val Ala Tyr Ile Phe Phe Leu Phe Tyr Phe Phe Thr Ile  
50 55 60

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Gln Lys Phe Leu Val Lys Ile Ile Asn Phe  
65 70

<210> 128  
<211> 257  
<212> PRT  
<213> Homo sapiens

<400> 128  
Met Ala Ser Lys Ile Gly Ser Arg Arg Trp Met Leu Gln Leu Ile Met  
1 5 10 15

Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys Phe  
20 25 30

Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys Pro  
35 40 45

Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val Leu  
50 55 60

Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala Leu  
65 70 75 80

Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile Gly  
85 90 95

Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser Arg  
100 105 110

Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala Gly  
115 120 125

Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr Gly  
130 135 140

Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu Gln  
145 150 155 160

His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly Gly  
165 170 175

Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu  
180 185 190

Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala  
195 200 205

Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr  
210 215 220

Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu  
225 230 235 240

Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp  
245 250 255

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Gly

<210> 129  
 <211> 348  
 <212> PRT  
 <213> Homo sapiens

<400> 129  
 Met Lys Glu Asp Cys Leu Pro Ser Ser His Val Pro Ile Ser Asp Ser  
 1 5 10 15  
 Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn  
 20 25 30  
 Cys Tyr His Glu Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu  
 35 40 45  
 Gly Thr Leu Ile Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg  
 50 55 60  
 Arg Pro Ile Arg Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu  
 65 70 75 80  
 Pro Ser Thr Ser Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys  
 85 90 95  
 Trp Ser Leu Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile  
 100 105 110  
 Ser Ala Leu Gln Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn  
 115 120 125  
 Gly Asn Ile Thr Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala  
 130 135 140  
 Glu Ser Ser Thr Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala  
 145 150 155 160  
 Pro Gln Leu Met Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg  
 165 170 175  
 Arg Pro Lys Cys Arg Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His  
 180 185 190  
 Arg Phe Ser Ile Asn Gly His Phe Tyr Asn His Lys Thr Ser Val Phe  
 195 200 205  
 Thr Pro Ala Tyr Gly Ser Val Thr Asn Val Arg Val Asn Ser Thr Met  
 210 215 220  
 Thr Thr Leu Gln Val Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu  
 225 230 235 240  
 Asp Gly Pro Ser Glu Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu  
 245 250 255

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Arg Thr Lys Leu Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu  
260 265 270

His Gly Pro Cys Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp  
275 280 285

Leu Gly Val Glu Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu  
290 295 300

Met Pro Val Leu Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu  
305 310 315 320

Arg Glu Ile Ile Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr  
325 330 335

Met Leu Gln Arg Leu Glu Gln Leu Val Glu Ala Lys  
340 345

<210> 130

<211> 95

<212> PRT

<213> Homo sapiens

<400> 130

Met Ser Ala Trp Leu Val Ser Leu Cys Ala Trp Leu Ser Leu Leu Arg  
1 5 10 15

Ala Thr Val Thr Ser Gln Val Ser Ser Ser Pro Ala Pro Val Val Ala  
20 25 30

Ser Gly Thr Leu Ser Pro Cys His Pro Pro Gly Ser Pro Ala Ala Ser  
35 40 45

Ala Cys Leu Leu Ser Pro Gln Ser Pro Cys Arg Arg Ala Ser Lys Trp  
50 55 60

Arg Ser His Met Thr Gly Val Ala Pro Ser Asn Arg Gly Ser Ser Cys  
65 70 75 80

Glu Ser Ser Gly Ser Gln Gly Lys Pro Ser Gln Arg Ala Gly Ala  
85 90 95

<210> 131

<211> 60

<212> PRT

<213> Homo sapiens

<400> 131

Met His Ile Pro Leu Trp Pro Asn Trp Leu Leu Phe Val Cys Lys Leu  
1 5 10 15

Leu Phe Leu Ser His Pro Ile Leu Leu Ala Cys Val Lys Cys Lys Ser  
20 25 30

Gln Val Phe Pro Ala Gly Ser Asn Val Phe Leu Ser Leu Asn Gln Gly

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35

40

45

Pro Thr Gly Cys Leu Leu Leu Gln Ile Lys Phe Tyr  
 50 55 60

&lt;210&gt; 132

&lt;211&gt; 267

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (175)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 132

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly  
 1 5 10 15

Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe  
 20 25 30

Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala  
 35 40 45

Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp  
 50 55 60

Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile  
 65 70 75 80

Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr  
 85 90 95

Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val  
 100 105 110

Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile  
 115 120 125

Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser  
 130 135 140

Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys  
 145 150 155 160

Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr  
 165 170 175

Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro  
 180 185 190

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Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp  
195 200 205

Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr  
210 215 220

Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala  
225 230 235 240

His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu  
245 250 255

Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
260 265

<210> 133

<211> 115

<212> PRT

<213> Homo sapiens

<400> 133

Met Ser Asp Phe Ser Asn Leu Ser Leu Leu Phe Phe Leu Leu Val Ser  
1 5 10 15

Leu Ala Lys Gly Leu Ser Ile Leu Phe Ile Tyr Ser Glu Asn His Leu  
20 25 30

Leu Val Leu Phe Ile Phe Leu Ile Phe Lys Glu Thr Thr Arg Pro Ala  
35 40 45

Ala Phe Cys Val Ser Val Glu Ser Cys Tyr Gly Ser Gly Ser Cys Leu  
50 55 60

Ser Ser Leu Ser Val Glu Trp Pro Gly Gln Cys Met Trp Arg Leu Leu  
65 70 75 80

Arg Leu Pro Phe Thr Arg Val Ala Leu Pro Leu Pro Val Trp His Phe  
85 90 95

His Val Thr Phe Leu Leu Lys Ser Trp Phe Thr Ala Lys Val Leu Ala  
100 105 110

Phe Ile Gln  
115

<210> 134

<211> 84

<212> PRT

<213> Homo sapiens

<400> 134

Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Ser Ser  
1 5 10 15

Thr Gly Leu Pro Val Val Leu Thr Asn Val Glu Leu Gly Leu Arg Cys  
20 25 30

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Glu Arg Thr Ala Met Ala Cys Cys Asn Gly Ser Ser Leu Val His Pro  
35 40 45

Arg Cys Ser Leu Ala Ser Val Cys Ile Ser Ala Pro Pro Ser Pro Ser  
50 55 60

Val Pro Trp Lys Lys Val Arg Pro Arg Gly Gln Ile Ala Ser Thr Val  
65 70 75 80

Val Trp Thr His

<210> 135

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

Met Arg Val Thr Xaa Ala Thr Xaa Ala Leu Leu Leu Ala Xaa Ile Cys  
1 5 10 15

Ser Val Gln Leu Gly Asp Ala Cys Leu Asp Ile Asp Lys Leu Leu Ala  
20 25 30

Asn Val Val Phe Asp Val Ser Gln Asp Leu Leu Lys Glu Glu Leu Ala  
35 40 45

Arg Tyr Asn Pro Ser Pro Leu Thr Glu Glu Ser Phe Leu Asn Val Gln  
50 55 60

Gln Cys Phe Ala Asn Val Ser Val Thr Glu Arg Phe Ala His Ser Val  
65 70 75 80

Val Ile Lys Lys Ile Leu Gln Ser Asn Asp Cys Ile Glu Ala Ala Phe  
85 90 95

<210> 136

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<211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 136  
 Met Leu Val Ser Ser Pro Phe Ser Ser Pro Val Ser Phe Trp Ala Val  
   1                  5                  10                  15  
 Phe Val Cys Leu Leu Leu Leu Tyr Lys Ile Arg Thr Val Asn Tyr Leu  
           20                  25                  30  
 Leu Cys Arg Ser Pro Ala Phe His Ser Ala Leu  
           35                  40

<210> 137  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Met Glu Pro Cys Leu Ala Val Ala Leu Ser Val Tyr Ile Trp Leu Arg  
   1                  5                  10                  15  
 Ala Thr Ser Ala Lys Leu Leu Pro Asp Leu Asn Glu Ser Ala Glu Ile  
           20                  25                  30  
 Ile Gly Pro Ser Ala Ala Glu Lys Lys  
           35                  40

<210> 138  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 138  
 Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser  
   1                  5                  10                  15  
 Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp  
           20                  25                  30  
 Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser  
           35                  40                  45  
 Lys Phe Ile Ser  
           50

<210> 139  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 139  
 Met Ile Val Tyr Tyr Leu Ala Phe Phe Gly Leu Leu Asp Leu Cys Leu  
   1                  5                  10                  15

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Gly Glu Gly Asn Phe Ser Ala Arg Glu Ala Val Trp Val Ile Cys Phe  
                   20                  25                  30

Phe Ala Arg Asp Tyr Ser Pro Lys Tyr Tyr Arg  
           35                  40

<210> 140  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 140  
 Met Ile Leu Gly Leu Leu Asn Leu Leu Arg Ile Val Val Phe Leu Ile  
   1                  5                  10                  15

Ala Trp Ser Ile Leu Glu Tyr Val Thr His Gly Asp Glu Lys Asp Ile  
                   20                  25                  30

Tyr Thr Met Leu Val Ser Asp Glu Glu Phe His Ile Cys Leu Leu Glu  
           35                  40                  45

<210> 141  
 <211> 410  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 141  
 Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln  
   1                  5                  10                  15

Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys  
                   20                  25                  30

Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys  
           35                  40                  45

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala  
   50                  55                  60

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Xaa Ile Pro  
   65                  70                  75                  80

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Phe	Glu	Asn	Cys	Cys	Thr	Asn	Glu	Thr	Ile	Leu	Arg	Tyr	Cys	Thr	Asp	
85					90					95						
Asp	Met	Leu	Gln	Arg	Glu	Met	Met	Ser	Asn	Pro	Phe	Leu	Gly	Ser	Tyr	
100					105					110						
Gly	Val	Ile	Ile	Leu	Asp	Asp	Ile	His	Glu	Arg	Ser	Ile	Ala	Thr	Asp	
115					120					125						
Val	Leu	Leu	Gly	Leu	Leu	Lys	Asp	Val	Leu	Leu	Ala	Arg	Pro	Glu	Leu	
130					135					140						
Lys	Leu	Ile	Ile	Asn	Ser	Ser	Pro	His	Leu	Ile	Ser	Lys	Leu	Asn	Ser	
145					150					155					160	
Tyr	Tyr	Gly	Asn	Val	Pro	Val	Xaa	Glu	Val	Lys	Asn	Lys	His	Pro	Val	
165					170					175						
Glu	Val	Val	Tyr	Leu	Ser	Glu	Ala	Gln	Lys	Asp	Ser	Phe	Glu	Ser	Ile	
180					185					190						
Leu	Arg	Leu	Ile	Phe	Glu	Ile	His	His	Ser	Gly	Glu	Lys	Gly	Asp	Ile	
195					200					205						
Val	Val	Phe	Leu	Ala	Cys	Glu	Gln	Asp	Ile	Glu	Lys	Val	Cys	Glu	Thr	
210					215					220						
Val	Tyr	Gln	Gly	Ser	Asn	Leu	Asn	Pro	Asp	Leu	Gly	Glu	Leu	Val	Val	
225					230					235					240	
Val	Pro	Leu	Tyr	Pro	Lys	Glu	Lys	Cys	Ser	Leu	Phe	Lys	Pro	Leu	Asp	
245					250					255						
Glu	Thr	Glu	Lys	Arg	Cys	Gln	Val	Tyr	Gln	Arg	Arg	Val	Val	Leu	Thr	
260					265					270						
Thr	Ser	Ser	Gly	Glu	Phe	Leu	Ile	Trp	Ser	Asn	Ser	Val	Arg	Phe	Val	
275					280					285						
Ile	Asp	Val	Gly	Val	Glu	Arg	Arg	Lys	Val	Tyr	Asn	Pro	Arg	Ile	Arg	
290					295					300						
Ala	Asn	Ser	Leu	Val	Met	Gln	Pro	Ile	Ser	Gln	Ser	Gln	Ala	Glu	Ile	
305					310					315					320	
Arg	Lys	Gln	Ile	Leu	Gly	Ser	Ser	Ser	Ser	Gly	Lys	Phe	Phe	Cys	Leu	
325					330					335						
Tyr	Thr	Glu	Glu	Phe	Ala	Ser	Lys	Asp	Met	Thr	Pro	Leu	Lys	Pro	Ala	
340					345					350						
Glu	Met	Gln	Glu	Ala	Asn	Leu	Thr	Ser	Met	Val	Leu	Phe	Met	Lys	Arg	
355					360					365						
Ile	Asp	Ile	Ala	Gly	Leu	Gly	His	Cys	Asp	Phe	Met	Asn	Arg	Pro	Gly	
370					375					380						
Ser	Leu	Met	Leu	Pro	Cys	Gln	Pro	Gly	Ile	Arg	Leu	Arg	Phe	Thr	Phe	

385

390

395

400

Ser Cys Pro Phe Ser Val Leu Ser Ser His  
 405 410

<210> 142  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Met Leu Arg Phe Leu Gly Asn Gln Met Tyr Ala Leu Tyr Thr Trp Leu  
 1 5 10 15

Leu Leu Gln Ser Pro Val Cys Ser Ala Val Leu Val Thr Ser Ala Leu  
 20 25 30

Leu Tyr Pro Ser Leu Leu Thr Leu Arg Pro Ser Gln Ala His Ala Ala  
 35 40 45

Cys Ile Tyr Leu Pro Ser Val Ser Leu Val Ser Leu Ser Asp Pro Phe  
 50 55 60

<210> 143  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 143  
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr  
 1 5 10 15

Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val  
 20 25 30

Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys  
 35 40

<210> 144  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 144  
 Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp  
 1 5 10 15

Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly  
 20 25 30

Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu  
 35 40 45

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Phe Phe Gly Thr Val Arg Gly Asn Gly Phe  
50 55

<210> 145  
<211> 103  
<212> PRT  
<213> Homo sapiens

<400> 145  
Met Ala His Ile Gly Ala Cys Val Ser Phe Val Phe Phe Leu Leu Gln  
1 5 10 15  
Gly Ala Val Ser Val Trp Thr Phe Cys Phe Arg Glu Leu Glu Arg Arg  
20 25 30  
Val Ser Ala Glu Gly Gly Glu Gln Gly Gln Arg Pro His Trp Pro Pro  
35 40 45  
Pro Ala Ser Gln Ser Glu Thr Leu Cys Leu Val Thr Lys Val Pro Pro  
50 55 60  
Lys Cys Ser Ser Phe Trp Val Ile Gln Ala Lys Tyr Leu Gly Phe Pro  
65 70 75 80  
Leu Ser Ser Phe Pro Ser Lys Pro Gln Leu Ser Phe Lys Ile Gly Asp  
85 90 95  
Ile Ser His Pro Leu Pro Leu  
100

<210> 146  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 146  
Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys  
1 5 10 15  
Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr  
20 25 30  
Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly  
35 40

<210> 147  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 147  
Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu  
1 5 10 15

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Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe  
 20 25 30

Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu  
 35 40 45

Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly  
 50 55 60

Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln  
 65 70 75 80

Arg His Gly Ser Lys Lys Asp  
 85

<210> 148

<211> 65

<212> PRT

<213> Homo sapiens

<400> 148

Met Ala Ser Pro Ser Ile Ile Leu Leu Leu Ile Phe Phe Phe Phe Phe  
 1 5 10 15

Phe Phe Ser Val Cys Ser Val Ser Gln Tyr Met Phe Glu Asn Glu Cys  
 20 25 30

Glu Ser Met Ser Arg Arg Arg Gly Arg Gly Leu Gly Arg Ser Arg Leu  
 35 40 45

Lys Val Glu Gln Gly Pro Asp Ala Asp Leu His Pro Arg Thr Leu Gly  
 50 55 60

Ser  
 65

<210> 149

<211> 87

<212> PRT

<213> Homo sapiens

<400> 149

Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile  
 1 5 10 15

Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val  
 20 25 30

Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro  
 35 40 45

Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro  
 50 55 60

Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly  
 65 70 75 80

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Ala Glu Ser Ala Leu Leu Gly  
85

<210> 150  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 150  
Met Lys Ile Pro Leu His Val Val Phe Leu Leu Ile Ser Leu Thr Phe  
1 5 10 15  
Leu Phe Thr Thr Leu Pro Thr Ala His Ser Ala Pro Ser Ser Pro Ala  
20 25 30  
Ser Leu His Ile Leu Arg Leu Arg Gly His Leu Met Cys Val Phe Pro  
35 40 45  
Leu Lys Met Met Pro Thr Leu Ile  
50 55

<210> 151  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 151  
Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu  
1 5 10 15  
Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys  
20 25 30  
Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile  
35 40 45

<210> 152  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 152  
Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met  
1 5 10 15  
Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu  
20 25 30  
Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala  
35 40 45  
Val Trp Asp Leu  
50

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<210> 153  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 153  
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser  
   1                  5                  10                  15  
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly  
                   20                  25                  30  
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu  
           35                  40                  45  
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu  
   50                  55                  60  
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu  
   65                  70                  75                  80

<210> 154  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 154  
 Met Asn Ile Pro Trp Leu Tyr Phe Val Asn Ser Phe Leu Ile Ala Thr  
   1                  5                  10                  15  
 Val Tyr Trp Phe Asn Cys His Lys Leu Asn Leu Lys Asp Ile Gly Leu  
           20                  25                  30  
 Pro Leu Asp Pro Phe Val Asn Trp Lys Cys Cys Phe Ile Pro Leu Thr  
           35                  40                  45  
 Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro Ile Ser Ile Met Ile Cys  
   50                  55                  60

<210> 155  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 155  
 Met Ser Phe Asp Ala Glu Lys Phe Leu Ile Leu Lys Phe Ile Leu Gln  
   1                  5                  10                  15  
 Phe Phe Leu Leu Leu Tyr Val Leu Phe Leu Val Leu Tyr Leu Arg Ile

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20

25

30

Cys Cys His Thr Gln Gly His Glu Asp Leu Pro Val Cys Tyr Leu Leu  
 35 40 45

Arg Val Leu  
 50

<210> 156  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 156  
 Met Ala Lys Arg Ser Ser Ser Leu Ser Ser Ser Lys Arg Leu Val Phe  
 1 5 10 15

Phe Thr Ala Leu Ala Ser Trp Leu Trp Arg Val Pro Glu Ser Leu Gly  
 20 25 30

Ser Pro Leu Asp Leu Leu Ser Asp Ala Lys Trp Val Cys Glu Ala Gly  
 35 40 45

Ile Phe His Trp Ser Ser Ser Ser Leu Leu Asn Asn Arg Ala Asp Ala  
 50 55 60

Phe Phe Leu Glu Ser Ser Glu Ala Phe Ala Phe Ser Ser Leu  
 65 70 75

<210> 157  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 157  
 Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu  
 1 5 10 15

Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Gln Val Ala Val  
 20 25 30

Pro Lys Asp Leu Ile Met Asp Ser Glu Ile Ala Lys Val Thr Asn  
 35 40 45

<210> 158  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 158  
 Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile  
 1 5 10 15

Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His  
 20 25 30

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Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser  
 35 40 45

Pro Val Cys Ala Val  
 50

<210> 159  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<400> 159  
 Met Arg Leu Arg Leu Arg Leu Leu Ala Leu Leu Leu Leu Leu Ala  
 1 5 10 15

Pro Pro Ala Arg Ala Pro Lys Pro Ser Ala Gln Asp Val Ser Leu Gly  
 20 25 30

Val Asp Trp Leu Thr Arg Tyr Gly Tyr Leu Pro Pro Pro His Pro Ala  
 35 40 45

Gln Ala Gln Leu Gln Ser Pro Glu Lys Leu Arg Asp Ala Ile Lys Val  
 50 55 60

Met Gln Arg Phe Ala Gly Leu Pro Glu Thr Gly Arg Met Asp Pro Gly  
 65 70 75 80

Thr Val Ala Thr Met Arg Lys Pro Arg Cys Ser Leu Pro Asp Val Leu  
 85 90 95

Gly Val Ala Gly Leu Val Arg Arg Gly Arg Arg Tyr Ala Leu Ser Gly  
 100 105 110

Ser Val Trp Lys Lys Arg Thr Leu Thr Trp Arg Val Arg Ser Phe Pro  
 115 120 125

Gln Ser Ser Gln Leu Ser Gln Glu Thr Val Arg Val Leu Met Ser Tyr  
 130 135 140

Ala Leu Met Ala Trp Gly Met Glu Ser Gly Leu Thr Phe His Glu Val  
 145 150 155 160

Asp Ser Pro Gln Gly Gln Glu Pro Asp Ile Leu Ile Asp Phe Ala Arg  
 165 170 175

Ala Phe His Gln Asp Ser Tyr Pro Phe Asp Gly Leu Gly Gly Thr Leu  
 180 185 190

Ala His Ala Phe Phe Pro Gly Glu His Pro Ile Ser Gly Asp Thr His  
 195 200 205

Phe Asp Asp Glu Glu Thr Trp Thr Phe Gly Ser Lys Asp Gly Glu Gly  
 210 215 220

Thr Asp Leu Phe Ala Val Ala Val His Glu Phe Gly His Ala Leu Gly  
 225 230 235 240

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Leu Gly His Ser Ser Ala Pro Asn Ser Ile Met Arg Pro Phe Tyr Gln  
 245 250 255

Gly Pro Val Gly Arg Pro  
 260

<210> 160  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 160  
 Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp  
 1 5 10 15

Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln  
 20 25 30

Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro  
 35 40 45

Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Glu Leu Ile Thr Tyr  
 50 55 60

Val Ser Arg Met Tyr Ser Lys Trp Gln Ala Ala Leu Gly Phe Pro Val  
 65 70 75 80

Phe Asp Lys Val Ala Ser Pro Gly Ile Ser Trp Arg Thr Val Val  
 85 90 95

<210> 161  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 161  
 Met Leu Asn Leu Gly Ser Trp Pro Gly Leu Val Ala Ala Ser Leu Phe  
 1 5 10 15

Leu Leu Lys Gly Val Phe Ser Leu Phe Val Gln Leu Leu Lys Asn Pro  
 20 25 30

Leu Gln His Pro Arg Asn Arg Ala Thr His Leu Leu Ala Thr Pro Gly  
 35 40 45

Ala Arg Val Leu Gln Glu His Leu Ser Ile His Pro Val Cys His Gln  
 50 55 60

Ser His Pro Pro Glu Ala Pro Leu Leu Pro Pro Ser Thr Arg Ala Ser  
 65 70 75 80

Leu Gln Ala Ser Pro Pro Pro Pro Ser Ser Gln His Pro Gly Gly  
 85 90 95

Thr Pro Ala Ala Cys Leu Gln Ser Lys Leu Pro Ile Thr His Arg Arg

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100

105

110

Ser Pro Leu Arg Arg Pro Arg His  
115 120

<210> 162  
<211> 121  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 162

Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr  
1 5 10 15

Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr  
20 25 30

Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val  
35 40 45

Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser  
50 55 60

Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala  
65 70 75 80

Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val  
85 90 95

Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu  
100 105 110

Phe Phe His His Phe Tyr His His Gln  
115 120

<210> 163  
<211> 310  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 163

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
65 70 75 80

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Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly  
                             85                            90                            95  
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu  
                             100                            105                            110  
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu  
                             115                            120                            125  
 Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys  
                             130                            135                            140  
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys  
                             145                            150                            155                            160  
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn  
                             165                            170                            175  
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn  
                             180                            185                            190  
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala  
                             195                            200                            205  
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp  
                             210                            215                            220  
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu  
                             225                            230                            235                            240  
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu  
                             245                            250                            255  
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe  
                             260                            265                            270  
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro  
                             275                            280                            285  
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His  
                             290                            295                            300  
 Lys Ser Ser Phe Val Ile  
                             305                            310

<210> 164  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<400> 164  
 Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
                             1                            5                            10                            15

Asp Phe Phe Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
                             20                            25                            30

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<210> 165
<211> 170
<212> PRT
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&lt;213&gt; Homo sapiens

&lt;400&gt; 165

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
 1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
 20 25 30

Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
 35 40 45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
 50 55 60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
 65 70 75 80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
 100 105 110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
 115 120 125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
 130 135 140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
 145 150 155 160

Ala Val His Pro Thr Gly Thr Lys Ala Leu  
 165 170

&lt;210&gt; 166

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 166

Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
 1 5 10 15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
 20 25 30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
 35 40 45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
 50 55 60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
 65 70 75 80

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Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
                             85                            90                            95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro  
                   100                            105                            110

His Leu

<210> 167  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 167  
 Met Val Thr Arg Ala Gly Ala Gly Thr Ala Val Ala Gly Ala Val Val  
   1                            5                            10                            15

Val Ala Leu Leu Ser Ala Ala Leu Ala Leu Tyr Gly Pro Pro Leu Asp  
                   20                            25                            30

Ala Val Leu Glu Arg Ala Phe Ser Leu Arg Lys Ala His Ser Ile Lys  
                   35                            40                            45

Asp Met Glu Asn Thr Leu Gln Leu Val Arg Asn Ile Ile Pro Pro Leu  
   50                            55                            60

Ser Ser Thr Lys His Lys Gly Gln Asp Gly Arg Ile Gly Val Val Gly  
   65                            70                            75                            80

Gly Cys Gln Glu Tyr Thr Gly Ala Pro Tyr Phe Ala Glu Ser Gln Leu  
                             85                            90                            95

Ser Lys Trp Ala Gln Thr Cys Pro Thr Cys Ser Val Pro Val Arg Pro  
                   100                            105                            110

His Leu

<210> 168  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 168  
 Met Ala Arg Ala Cys Val Phe Gln Leu Ser Leu Trp Arg Lys Leu Pro  
   1                            5                            10                            15

Val Gly Ile Asn Leu Ser Pro Ala Ile Leu Ser Leu Ser Leu Gly Cys  
                   20                            25                            30

Leu Gly Leu Gly Phe Leu Leu Leu Leu Glu Arg Met Thr Thr Asp Ser  
                   35                            40                            45

Gly Ile Arg Gln Arg Arg Gln Thr  
   50                            55

20250704 011802

<210> 169  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 169  
 Met Arg Ala Val His Pro Ala Leu Gly Leu Cys Leu Leu Pro Ala Pro  
           1                  5                  10                  15

Ser Cys Gly Lys Val Leu Val Ala Gly Ala Leu Glu Gly Val Pro Ala  
                   20                  25                  30

Gly Val Ala Glu Ala Glu Ala Asn Ile Ala Gln Val Pro Pro Ile Ala  
           35                  40                  45

Arg Gln Thr  
           50

<210> 170  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Leu Pro Ala Leu Arg Gly Leu Leu Phe Val Thr Trp Val Phe Pro  
           1                  5                  10                  15

Leu Glu Asp Gln Glu Ala Ala Ala Phe Pro Gly Glu Val Asp Pro Pro  
                   20                  25                  30

Ser Pro Phe Gly Pro Cys Thr Ala Glu Gly Pro Ala Ala Leu Pro Ala  
           35                  40                  45

Arg Val Trp Ser Val Lys Gln Gly Leu Arg Pro Phe Ser Cys Ser Asp  
           50                  55                  60

Ala Pro Gln Gly Asp Ser Arg Glu Leu Ala Lys Pro Pro Gly Leu Pro  
           65                  70                  75                  80

Pro Val Arg Gly Ala Leu Val Thr Trp Pro Pro Pro Gln Pro Thr Gly  
                   85                  90                  95

Leu Ser Arg Leu Arg Cys His Pro His Gly Thr Gly Gly Asn His Ser  
           100                  105                  110

Ile Arg Cys Arg Arg Cys Arg Pro  
           115                  120

<210> 171  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<400> 171

10050704.01302

Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu Leu  
 1 5 10 15  
 Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln Leu  
 20 25 30  
 Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr Ala  
 35 40 45  
 Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr Asp  
 50 55 60  
 Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met Arg  
 65 70 75 80  
 Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys Arg  
 85 90 95  
 Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile Asn  
 100 105 110  
 Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr Gly  
 115 120 125  
 Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln Val  
 130 135 140  
 Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser Glu  
 145 150 155 160  
 Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu Lys  
 165 170 175  
 Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys Glu  
 180 185 190  
 Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu Val  
 195 200 205  
 Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu Asp  
 210 215 220  
 Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile Lys  
 225 230 235 240  
 Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg Leu  
 245 250 255  
 Glu Gln Leu Val Glu Ala Lys  
 260

<210> 172  
 <211> 157  
 <212> PRT  
 <213> Homo sapiens

<400> 172

10050704.011802

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu  
1 5 10 15

Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg  
20 25 30

Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile  
35 40 45

Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe  
50 55 60

Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys  
65 70 75 80

Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro  
85 90 95

His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln  
100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly  
115 120 125

Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp  
130 135 140

Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe  
145 150 155

<210> 173

<211> 71

<212> PRT

<213> Homo sapiens

<400> 173

Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly  
1 5 10 15

Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro  
20 25 30

Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu  
35 40 45

Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala  
50 55 60

Gly Trp Ala Tyr Thr Ser Ser  
65 70

<210> 174

<211> 90

<212> PRT

<213> Homo sapiens

10050704.01300

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 174  
 Met Gly Ile Trp Val Leu Ala Leu Trp Val Gly Cys Leu Cys Phe Leu  
     1                    5                    10                    15  
 Tyr Arg Pro Ala Cys Gly Thr Asp Gln Cys Gly Ala Trp Ser Lys Val  
           20                    25                    30  
 Arg Arg Thr Ala Met Ala Xaa Ala Thr Gly Ala Ala Xaa Ser Thr Pro  
       35                    40                    45  
 Xaa Ala Xaa Trp Leu Leu Ser Val Ser His Thr Thr Leu Xaa Leu Xaa  
       50                    55                    60  
 Ala Met Glu Lys Gly Glu Ala Gln Arg Ala Asn Cys Gln His Ser Cys  
       65                    70                    75                    80  
 Val Asp Thr Leu Gly Pro Gln His Gln Pro  
           85                    90

<210> 175  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Glu Asn Phe Ile Lys Val Gln Leu Arg Asp Gly Asp Ser Asn Cys  
     1                    5                    10                    15

10050704.01802

Glu Trp Ser Val Leu Tyr Val Ile Ile Ala Thr Phe Val Ile Val Val  
20 25 30

Ala Leu Gly Ile Leu Ser Trp Thr Val Ile Cys Cys Cys Lys Arg Gln  
35 40 45

Lys Gly Lys Pro Lys Arg Lys Ser Lys Tyr Lys Ile Leu Asp Ala Thr  
50 55 60

Asp Gln Glu Ser Leu Glu Leu Lys Pro Thr Ser Arg Ala Gly Lys Glu  
65 70 75 80

Lys Arg Met Ser Leu Ser Gly Leu Asn Gln Ser Ser Trp Ile Leu Glu  
85 90 95

Met Lys Asn Gln Gln Glu Thr Pro Gly Ile Lys Gln Lys Gly Leu Leu  
100 105 110

Leu Ser Ser Ser Leu Met His Ser Glu Ser Glu Leu Asp Ser Asp Asp  
115 120 125

Ala Ile Phe Thr Trp Pro Asp Arg Glu Lys Gly Lys Leu Leu His Gly  
130 135 140

Gln Asn Gly Ser Val Pro Asn Gly Arg Pro Leu  
145 150 155

<210> 176

<211> 102

<212> PRT

<213> Homo sapiens

<400> 176

Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln  
1 5 10 15

Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys  
20 25 30

Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys  
35 40 45

Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala  
50 55 60

Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro  
65 70 75 80

Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly  
85 90 95

Val Gln Ser Ala Pro Cys  
100

<210> 177

10050704.01302

<211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 177

Met Val Ser Phe Gly Phe Trp Phe Leu Cys Leu Phe Phe Gly Val Trp  
 1 5 10 15

Lys Asn Met His Phe Tyr Arg Ala Arg Lys Leu Val Ser Arg Lys Gly  
 20 25 30

Ser Pro Glu Lys Ala Ala Asp Gly Pro Cys Pro Cys Trp Val Phe Leu  
 35 40 45

Phe Phe Gly Thr Val Arg Gly Asn Gly Phe  
 50 55

<210> 178

<211> 45

<212> PRT

<213> Homo sapiens

<400> 178

Met Val Gln Trp Lys Asn Trp Pro Glu Ser Leu Glu Val Trp Val Leu  
 1 5 10 15

Val Leu Ala Val Pro Leu Thr His Cys Asp Leu Gly Ile Leu Cys Cys  
 20 25 30

Glu Asp Ile Ser Gln Val Leu His Val Ser Gln Gln Ile  
 35 40 45

<210> 179

<211> 98

<212> PRT

<213> Homo sapiens

<400> 179

Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu  
 1 5 10 15

Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu  
 20 25 30

Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu  
 35 40 45

Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys  
 50 55 60

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser  
 65 70 75 80

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys  
 85 90 95

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Ala Glu

&lt;210&gt; 180

&lt;211&gt; 392

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (251)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 180

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly  
 1 5 10 15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser  
 20 25 30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr  
 35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile  
 50 55 60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu  
 65 70 75 80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly  
 85 90 95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser  
 100 105 110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro  
 115 120 125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro  
 130 135 140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu  
 145 150 155 160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly  
 165 170 175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
 180 185 190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His  
 195 200 205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro  
 210 215 220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His

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225                      230                      235                      240

Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala  
                                 245                                   250                                   255

Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly  
                                 260                                   265                                   270

Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly  
                                 275                                   280                                   285

Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
                                 290                                   295                                   300

Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
305                                   310                                   315                                   320

Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
                                 325                                   330                                   335

Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr  
                                 340                                   345                                   350

Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala  
                                 355                                   360                                   365

Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
                                 370                                   375                                   380

Leu Glu Gly Phe Ile Lys Gly Arg  
385                                   390

<210> 181  
<211> 434  
<212> PRT  
<213> Homo sapiens

<400> 181  
Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu  
1                                   5                                   10                                   15

Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro  
                                 20                                   25                                   30

Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly  
                                 35                                   40                                   45

Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn  
50                                   55                                   60

Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr  
65                                   70                                   75                                   80

Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser  
                                 85                                   90                                   95

Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu

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100					105					110					
Val	Glu	Ser	Trp	Trp	Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	Asp	Leu	Phe
		115					120					125			
Gln	Trp	Leu	Cys	Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	Ala	Gly	Thr
	130					135					140				
Phe	Gly	Pro	Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	Arg	Pro	Cys
145					150					155					160
Gly	Gly	Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	Gly	Ser	Gly
				165					170					175	
His	Cys	Asp	Cys	Gln	Ala	Gly	Tyr	Gly	Gly	Glu	Ala	Cys	Gly	Gln	Cys
			180					185					190		
Gly	Leu	Gly	Tyr	Phe	Glu	Ala	Glu	Arg	Asn	Ala	Ser	His	Leu	Val	Cys
		195					200					205			
Ser	Ala	Cys	Phe	Gly	Pro	Cys	Ala	Arg	Cys	Ser	Gly	Pro	Glu	Glu	Ser
	210					215					220				
Asn	Cys	Leu	Gln	Cys	Lys	Lys	Gly	Trp	Ala	Leu	His	His	Leu	Lys	Cys
225					230					235					240
Val	Asp	Ile	Asp	Glu	Cys	Gly	Thr	Glu	Gly	Ala	Asn	Cys	Gly	Ala	Asp
				245					250					255	
Gln	Phe	Cys	Val	Asn	Thr	Glu	Gly	Ser	Tyr	Glu	Cys	Arg	Asp	Cys	Ala
			260					265					270		
Lys	Ala	Cys	Leu	Gly	Cys	Met	Gly	Ala	Gly	Pro	Gly	Arg	Cys	Lys	Lys
		275					280					285			
Cys	Ser	Pro	Gly	Tyr	Gln	Gln	Val	Gly	Ser	Lys	Cys	Leu	Asp	Val	Asp
		290				295					300				
Glu	Cys	Glu	Thr	Glu	Val	Cys	Pro	Gly	Glu	Asn	Lys	Gln	Cys	Glu	Asn
305					310					315					320
Thr	Glu	Gly	Gly	Tyr	Arg	Cys	Ile	Cys	Ala	Glu	Gly	Tyr	Lys	Gln	Met
				325					330					335	
Glu	Gly	Ile	Cys	Val	Lys	Glu	Gln	Ile	Pro	Gly	Ala	Phe	Pro	Ile	Leu
			340					345					350		
Thr	Asp	Leu	Thr	Pro	Glu	Thr	Thr	Arg	Arg	Trp	Lys	Leu	Gly	Ser	His
		355					360					365			
Pro	His	Ser	Thr	Tyr	Val	Lys	Met	Lys	Met	Gln	Arg	Asp	Glu	Ala	Thr
		370				375					380				
Phe	Pro	Gly	Leu	Tyr	Gly	Lys	Gln	Val	Ala	Lys	Leu	Gly	Ser	Gln	Ser
385					390					395					400
Arg	Gln	Ser	Asp	Arg	Gly	Thr	Arg	Leu	Ile	His	Val	Ile	Asn	Ala	Leu
				405					410					415	

Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Gly  
 420 425 430

Gly Arg

<210> 182  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val  
 1 5 10 15

Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr  
 20 25 30

Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser  
 35 40 45

Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp  
 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln  
 65 70 75 80

Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn  
 85 90 95

Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn  
 100 105 110

Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys  
 115 120 125

Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro  
 130 135 140

Ile Ser Ile Met Ile Cys  
 145 150

<210> 183  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg  
 1 5 10 15

His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp  
 20 25 30

Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro

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35

40

45

Ser Ala Asp Ser Thr Ala His Phe Pro Gly Pro Pro His Thr Ser Gln  
50 55 60

Pro Ser Gly Arg Ser Leu Pro Thr Arg Cys Arg Val Pro Pro Ala Leu  
65 70 75 80

Ser Arg Pro Gly Ser Pro Pro Pro Gly Pro Arg Gly Gly Pro Ser Gln  
85 90 95

Ala Pro Phe Glu Pro Arg Arg Arg Pro Gly Leu Gly Arg Thr  
100 105 110

&lt;210&gt; 184

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 184

His Ala Ser Gly Trp Arg Thr Pro Arg Asp Pro Glu Arg Pro Pro Arg  
1 5 10 15

His Ile Gln Thr Ser Ala Ala Pro Ala Pro Ser Gln Pro Ser Trp Asp  
20 25 30

Ser Arg Ala His Pro Thr Gln Arg Arg Asp Pro Gly Pro Pro Gly Pro  
35 40 45

Ser Ala Asp Ser Thr Ala His Phe  
50 55

&lt;210&gt; 185

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

Pro Gly Pro Pro His Thr Ser Gln Pro Ser Gly Arg Ser Leu Pro Thr  
1 5 10 15

Arg Cys Arg Val Pro Pro Ala Leu Ser Arg Pro Gly Ser Pro Pro Pro  
20 25 30

Gly Pro Arg Gly Gly Pro Ser Gln Ala Pro Phe Glu Pro Arg Arg Arg  
35 40 45

Pro Gly Leu Gly Arg Thr  
50

&lt;210&gt; 186

&lt;211&gt; 723

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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&lt;400&gt; 186

His Ala Ser Ala Ser Pro Gly Arg Val Asp Ala Asp Ser Asn Ala Val  
 1 5 10 15  
 Ala Ser Gly Pro Arg Thr Pro Ser Gly Pro Thr Arg Gln Glu Arg Leu  
 20 25 30  
 Arg Pro Arg Pro Ala Pro Pro Gly Ser Leu Arg Arg Arg Arg Leu Pro  
 35 40 45  
 Gly Gln Lys Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu  
 50 55 60  
 Leu Leu Ala Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln  
 65 70 75 80  
 Cys Ser Gln Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr  
 85 90 95  
 Val Pro Arg Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu  
 100 105 110  
 Asn Gly Ile Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly  
 115 120 125  
 Leu Gln Leu Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser  
 130 135 140  
 Gly Val Phe Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala  
 145 150 155 160  
 Asn Arg Leu His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg  
 165 170 175  
 Leu Glu Arg Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro  
 180 185 190  
 Gly Ala Phe Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp  
 195 200 205  
 Asn Glu Leu Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu  
 210 215 220  
 Leu Asp Leu Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu  
 225 230 235 240  
 Asp Thr Ala Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln  
 245 250 255  
 Gln Leu Asp Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu  
 260 265 270  
 Asp Val Ser Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly  
 275 280 285  
 Leu Arg Gly Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala  
 290 295 300

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Gln Leu Arg Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu  
 305 310 315 320  
 Asp Val Ser Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly  
 325 330 335  
 Leu Phe Pro Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn  
 340 345 350  
 Cys Val Cys Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His  
 355 360 365  
 Val Thr Leu Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys  
 370 375 380  
 Asn Ala Gly Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys  
 385 390 395 400  
 Pro Ala Thr Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val  
 405 410 415  
 Arg Glu Pro Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser  
 420 425 430  
 Pro Thr Ala Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro  
 435 440 445  
 Pro Thr Val Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr  
 450 455 460  
 Cys Leu Asn Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala  
 465 470 475 480  
 Cys Leu Cys Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met  
 485 490 495  
 Gly Gln Gly Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro  
 500 505 510  
 Arg Ser Leu Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg  
 515 520 525  
 Val Gly Leu Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser  
 530 535 540  
 Leu Arg Leu Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val  
 545 550 555 560  
 Thr Leu Arg Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu  
 565 570 575  
 Arg Pro Asn Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly  
 580 585 590  
 Arg Val Pro Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro  
 595 600 605  
 Ala Val His Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn

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610                      615                      620  
 Leu Pro Leu Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala  
 625                      630                      635                      640  
 Leu Ala Ala Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met  
                     645                      650                      655  
 Ala Ala Ala Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro  
                     660                      665                      670  
 Leu Glu Leu Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala  
                     675                      680                      685  
 Thr Glu Ala Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys  
                     690                      695                      700  
 His Ser Trp Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys  
 705                      710                      715                      720

Pro Tyr Ile

<210> 187  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 His Ala Ser Gly Arg Leu Gln Thr Gln Arg Glu Gly Gly Gln Gly Val  
   1                      5                      10                      15  
 Gly Arg Arg Arg Thr Glu Glu Gly Thr Glu Thr Gln Ser Lys Gly Gly  
                     20                      25                      30  
 Lys Glu Glu Thr Leu Val Gly Gly Arg His Ser Gly Glu Arg Gly Gly  
                     35                      40                      45  
 Trp Ala Glu  
                     50

<210> 188  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Pro Arg Val Arg Ala Glu Ser Glu Gly Thr Tyr Asp Thr Tyr Gln His  
   1                      5                      10                      15  
 Val Pro Val Glu Ser Phe Ala Glu Val Leu Leu Arg Thr Gly Lys Leu  
                     20                      25                      30  
 Ala Glu Ala Lys Asn Lys Gly Glu Val Phe Pro Thr Thr Glu Val Leu  
                     35                      40                      45

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Leu Gln Leu Ala Ser Glu Ala Leu Pro Asn Asp  
 50 55

<210> 189  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Thr Leu Asn His Leu Glu Lys Ser Leu Ala His Leu Glu Thr Leu Ser  
 1 5 10 15

His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu Gln Glu Thr Leu Gln  
 20 25 30

Lys Tyr Ser  
 35

<210> 190  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 His Leu Tyr Asp Leu Ser Arg Ser Glu Lys Glu Lys Leu His Asp Glu  
 1 5 10 15

Ala Val Ala Ile Cys Leu Asp Gly Gln Pro Leu Ala Met Ile Gln Gln  
 20 25 30

Leu Leu Glu Val  
 35

<210> 191  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 191  
 Ala Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala  
 1 5 10 15

Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu Gly  
 20 25 30

Gly Pro Arg  
 35

<210> 192  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 192

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Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala Ala Val His Ala Ser  
1 5 10 15

Val Asp Lys Gly Glu Glu Leu Val Ser Pro Glu Asp Leu Leu Glu Trp  
20 25 30

Leu Arg Pro Phe  
35

<210> 193  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 193  
Cys Ala Asp Asp Ala Trp Pro Val Arg Pro Arg Ile His Val Leu Gln  
1 5 10 15

Ile Leu Gly Gln Ser Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu  
20 25 30

Val Phe Phe  
35

<210> 194  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 194  
Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp  
1 5 10 15

Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu  
20 25 30

Leu Leu Glu Ser Ser  
35

<210> 195  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 195  
His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Leu Gln Ala Trp  
1 5 10 15

Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro Trp Val Arg  
20 25 30

Leu Ala

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<210> 196  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly  
           1                  5                  10                  15  
 Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met  
                   20                  25                  30  
 Leu Pro Ala Glu  
                   35

<210> 197  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 197  
 Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser Leu Leu Leu  
           1                  5                  10                  15  
 Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu His Leu His Glu  
                   20                  25                  30  
 Met Ala Leu  
                   35

<210> 198  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Glu Gln Ile Thr Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln  
           1                  5                  10                  15  
 Glu Leu Leu Ser Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val  
                   20                  25                  30  
 Ser Thr Pro Phe  
                   35

<210> 199  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg  
           1                  5                  10                  15  
 Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu

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20

25

30

Ala Glu Ala  
35

<210> 200  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 200  
Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala Phe Arg Thr  
1 5 10 15

Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val  
20 25

<210> 201  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 201  
Pro Ser Ser Tyr Thr Ala Thr Met Asn Val Ser Trp Ile Ser Leu Arg  
1 5 10 15

Arg Arg Ser Phe Arg Ala Phe Gly Arg Val Trp Thr Cys Ser Gly Leu  
20 25 30

Leu Gln Met Thr Ser Ile  
35

<210> 202  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 202  
Lys Gly Lys Leu Ser Leu Val Trp Gln Arg Leu Asp Gly His Phe Cys  
1 5 10 15

Arg Thr Leu Glu Glu Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln  
20 25 30

Arg

<210> 203  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 203  
Tyr Ser Val Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu

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1                      5                      10                      15  
 Phe Thr Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln  
                     20                      25                      30

Asp Leu His  
             35

<210> 204  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His Gln His Met  
             1                      5                      10                      15

Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu  
                     20                      25                      30

Gln Tyr Tyr Phe  
                     35

<210> 205  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Thr Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile  
             1                      5                      10                      15

Lys Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala  
                     20                      25                      30

Ser Gly Leu  
             35

<210> 206  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 206  
 Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu  
             1                      5                      10                      15

Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val  
                     20                      25                      30

Pro Lys Ile Pro  
                     35

<210> 207

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<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Glu Lys Asp Gly Gln Met Leu Ser Pro Ser Ser Leu Tyr Thr Ile Trp  
 1 5 10 15

Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro His Leu Ile Lys Gln Val  
 20 25 30

Pro Gly Ser Ser  
 35

<210> 208  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Pro Glu Trp Leu His Ala Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg  
 1 5 10 15

Leu His Pro Gly Asp Leu Ile Thr Val Val Asp Ala Val Thr Phe Ser  
 20 25 30

Pro Lys Ala  
 35

<210> 209  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 209  
 Met Leu Val Tyr Leu Ile Thr Gly Asp Val Lys Phe Gly Leu Leu Ala  
 1 5 10 15

Arg Val Gly Cys Cys Leu Thr Val Pro Thr Glu Arg Cys Phe Phe Ser  
 20 25 30

Phe Cys Ala Ala Val Lys Lys Pro Ala Pro Ala Pro Pro Lys Pro Gly  
 35 40 45

Asn Pro Pro Pro Gly His Pro Gly Gly Gln Ser Ser Ser Gly Thr Ser  
 50 55 60

Gln His Pro Pro Ser Leu Ser Pro Lys Pro Pro Thr Arg Ser Pro Ser  
 65 70 75 80

Pro Pro Thr Gln His Thr Gly Gln Pro Pro Gly Gln Pro Ser Ala Pro  
 85 90 95

Ser Gln Leu Ser Ala Pro Arg Arg Tyr Ser Ser Ser Leu Ser Pro Ile  
 100 105 110

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Gln Ala Pro Asn His Pro Pro Pro Gln Pro Pro Thr Gln Ala Thr Pro  
115 120 125

Leu Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala  
130 135 140

Leu Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln  
145 150 155 160

Thr Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser  
165 170 175

Leu Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln  
180 185 190

Pro His Ala Gly Thr Leu Pro Arg Pro Arg Pro Val Pro Lys Pro Arg  
195 200 205

Asn Arg Pro Ser Val Pro Pro Pro Pro Gln Pro Pro Gly Val His Ser  
210 215 220

Ala Gly Asp Ser Ser Leu Thr Asn Thr Ala Pro Thr Ala Ser Lys Ile  
225 230 235 240

Val Thr Asp Val

<210> 210

<211> 36

<212> PRT

<213> Homo sapiens

<400> 210

Pro Thr Arg Pro Arg Arg Arg Ser Pro Ser Pro Thr Gln Cys Gly Ala  
1 5 10 15

Arg Arg Glu Pro Arg Arg Lys Leu Ser Ala Ser Ala Arg Gln Ala Arg  
20 25 30

Arg Arg Arg Ala  
35

<210> 211

<211> 195

<212> PRT

<213> Homo sapiens

<400> 211

Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
35 40 45

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Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp  
 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr  
 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser  
 85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly  
 100 105 110

Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val  
 115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly  
 130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe  
 145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile  
 165 170 175

Ser Phe Cys Gly Asp Thr Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro  
 180 185 190

Leu Trp Ile  
 195

<210> 212  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Met Lys Phe Thr Ile Val Phe Ala Gly Leu Leu Gly Val Phe Leu Ala  
 1 5 10 15

Pro Ala Leu Ala Asn Tyr Asn Ile Asn Val Asn Asp Asp Asn Asn Asn  
 20 25 30

Ala Gly Ser Gly Gln Gln Ser Val Ser Val Asn Asn Glu His Asn Val  
 35 40 45

Ala Asn Val Asp Asn Asn Asn Gly Trp Asp Ser Trp Asn Ser Ile Trp  
 50 55 60

Asp Tyr Gly Asn Gly Phe Ala Ala Thr Arg Leu Phe Gln Lys Lys Thr  
 65 70 75 80

Cys Ile Val His Lys Met Asn Lys Glu Val Met Pro Ser Ile Gln Ser  
 85 90 95

Leu Asp Ala Leu Val Lys Glu Lys Lys Leu Gln Gly Lys Gly Pro Gly  
 100 105 110

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Gly Pro Pro Pro Lys Gly Leu Met Tyr Ser Val Asn Pro Asn Lys Val  
115 120 125

Asp Asp Leu Ser Lys Phe Gly Lys Asn Ile Ala Asn Met Cys Arg Gly  
130 135 140

Ile Pro Thr Tyr Met Ala Glu Glu Met Gln Glu Ala Ser Leu Phe Phe  
145 150 155 160

Tyr Ser Gly Thr Cys Tyr Thr Thr Ser Val Leu Trp Ile Val Asp Ile  
165 170 175

Ser Phe Cys Gly Asp Thr  
180

<210> 213  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 213  
Gly Gly Glu Leu Asn Asn Phe Leu Lys Pro Leu Trp Ile  
1 5 10

<210> 214  
<211> 171  
<212> PRT  
<213> Homo sapiens

<400> 214  
Phe Ile Phe Ser Val Lys Lys Lys Lys Thr Asp Asp Gly Pro Ser Leu  
1 5 10 15

Gly Ala Gln Asp Gln Arg Ser Thr Pro Thr Asn Gln Lys Gly Ser Ile  
20 25 30

Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val Val Asp Gln  
35 40 45

Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp Glu Val Phe Glu  
50 55 60

Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr Gln Asn Pro Val  
65 70 75 80

Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu Gly Tyr Asn Met  
85 90 95

Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys Ser Leu Met  
100 105 110

Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val Arg Asp Leu  
115 120 125

Glu His Trp His Gly Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln

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141

130

135

140

Lys Asn Ala Met Asn Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr  
145 150 155 160

Gly Glu Asn Ser Lys Ser Lys Ser Ser Lys Tyr  
165 170

<210> 215  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 215  
Gly Ser Ile Ile Pro Asn Asn Ile Arg His Lys Phe Gly Ser Asn Val  
1 5 10 15

Val Asp Gln Leu Val Ser Glu Glu Gln Ala Gln Lys Ala Ile Asp  
20 25 30

<210> 216  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 216  
Glu Val Phe Glu Gly Gln Lys Arg Ala Ser Ser Trp Pro Ser Arg Thr  
1 5 10 15

Gln Asn Pro Val Glu Ile Ser Ser Val Phe Ser Asp Tyr Tyr Asp Leu  
20 25 30

Gly

<210> 217  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 217  
Tyr Asn Met Arg Ser Asn Leu Phe Arg Gly Ala Ala Glu Glu Thr Lys  
1 5 10 15

Ser Leu Met Lys Ala Ser Tyr Thr Pro Glu Val Ile Glu Lys Ser Val  
20 25 30

Arg Asp Leu Glu His Trp His Gly  
35 40

<210> 218  
<211> 38  
<212> PRT  
<213> Homo sapiens

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&lt;400&gt; 218

Arg Lys Thr Asp Asp Leu Gly Arg Trp His Gln Lys Asn Ala Met Asn  
 1 5 10 15

Leu Asn Leu Gln Lys Ala Leu Glu Glu Lys Tyr Gly Glu Asn Ser Lys  
 20 25 30

Ser Lys Ser Ser Lys Tyr  
 35

&lt;210&gt; 219

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys  
 1 5 10 15

Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr  
 20 25 30

Ser Ser Glu Gln Arg Pro Ala  
 35

&lt;210&gt; 220

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser  
 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys  
 20 25 30

Leu Ser His Gln Leu Leu Phe Phe Leu Trp Ala Arg Met Arg Gly Cys  
 35 40 45

Thr Gln Gly Pro Leu Gln Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala  
 50 55 60

Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr  
 65 70 75 80

Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys Gly Met Gly  
 85 90 95

Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser  
 100 105 110

Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp  
 115 120 125

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Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe Ser Arg Arg  
 130 135 140

Val Lys Arg Arg Glu Lys Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro  
 145 150 155 160

<210> 221  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Ser Gln Val Pro Lys Arg Thr Asp Ser Ser Glu Pro Cys Gly Leu Ser  
 1 5 10 15

Asp Leu Cys Arg Ser Leu Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys  
 20 25 30

Leu Ser His Gln Leu Leu Phe  
 35

<210> 222  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln Gln  
 1 5 10 15

Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn Arg  
 20 25 30

Arg Ala Glu Ala  
 35

<210> 223  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met  
 1 5 10 15

Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu  
 20 25 30

Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly  
 35 40

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<210> 224  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 224  
 Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile  
     1                    5                    10                    15  
 Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys Gln  
                     20                    25                    30  
 Phe Pro Glu Tyr Trp Lys Trp Cys Pro  
             35                    40

<210> 225  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Met Thr Lys Pro Gly Cys Ser Gly Tyr Cys Leu Ser His Gln Leu Leu  
     1                    5                    10                    15  
 Phe Phe Leu Trp Ala Arg Met Arg Gly Cys Thr Gln Gly Pro Leu Gln  
                     20                    25                    30  
 Gln Ser Gln Asp Tyr Ile Thr Phe Cys Ala Asn Met Met Asp Leu Asn  
                     35                    40                    45  
 Arg Arg Ala Glu Ala Ile Gly Tyr Ala Tyr Pro Thr Arg Asp Ile Phe  
             50                    55                    60  
 Met Glu Asn Ile Met Phe Cys Gly Met Gly Gly Phe Ser Asp Phe Tyr  
     65                    70                    75                    80  
 Lys Leu Arg Trp Leu Glu Ala Ile Leu Ser Trp Gln Lys Gln Gln Glu  
                     85                    90                    95  
 Gly Cys Phe Gly Glu Pro Asp Ala Glu Asp Glu Glu Leu Ser Lys Ala  
             100                    105                    110  
 Ile Gln Tyr Gln Gln His Phe Ser Arg Arg Val Lys Arg Arg Glu Lys  
             115                    120                    125  
 Gln Phe Pro Glu Tyr Trp Lys Trp Cys Pro  
     130                    135

<210> 226  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 226  
 Phe Cys Ala Asn Met Met Asp Leu Asn Arg Arg Ala Glu Ala Ile Gly  
     1                    5                    10                    15

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Tyr Ala Tyr Pro Thr Arg Asp Ile Phe Met Glu Asn Ile Met Phe Cys  
                   20                  25                  30

Gly Met Gly Gly Phe Ser Asp Phe Tyr Lys Leu Arg Trp Leu Glu Ala  
           35                  40                  45

Ile Leu Ser Trp Gln Lys Gln Gln Glu Gly Cys Phe Gly Glu Pro Asp  
       50                  55                  60

Ala Glu Asp Glu Glu Leu Ser Lys Ala Ile Gln Tyr Gln Gln His Phe  
       65                  70                  75                  80

Ser Arg Arg Val Lys Arg Arg Glu Lys Gln Phe Pro  
                   85                  90

<210> 227

<211> 119

<212> PRT

<213> Homo sapiens

<400> 227

Met Ala Ser Leu Gly Leu Leu Leu Leu Leu Leu Thr Ala Leu Pro  
       1                  5                  10                  15

Pro Leu Trp Ser Ser Ser Leu Pro Gly Leu Asp Thr Ala Glu Ser Lys  
           20                  25                  30

Ala Thr Ile Ala Asp Leu Ile Leu Ser Ala Leu Glu Arg Ala Thr Val  
           35                  40                  45

Phe Leu Glu Gln Arg Leu Pro Glu Ile Asn Leu Asp Gly Met Val Gly  
       50                  55                  60

Val Arg Val Leu Glu Glu Gln Leu Lys Ser Val Arg Glu Lys Trp Ala  
       65                  70                  75                  80

Gln Glu Pro Leu Leu Gln Pro Leu Ser Leu Arg Val Gly Met Leu Gly  
           85                  90                  95

Glu Lys Leu Glu Ala Ala Ile Gln Arg Ser Leu His Tyr Leu Lys Leu  
           100                  105                  110

Ser Asp Pro Lys Tyr Leu Arg  
       115

<210> 228

<211> 175

<212> PRT

<213> Homo sapiens

<400> 228

His Glu Ser Ala Arg Gly Arg Trp Glu Gly Gly Gly Arg Arg Ala Cys  
       1                  5                  10                  15

Arg Gly Ser Leu Gly Leu Ala Arg Ala Gln Gly Ala Glu Arg Val Thr

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20

25

30

Ser Ser Glu Gln Arg Pro Ala Met Ala Ser Leu Gly Leu Leu Leu Leu  
 35 40 45

Leu Leu Leu Thr Ala Leu Pro Pro Leu Trp Ser Ser Ser Leu Pro Gly  
 50 55 60

Leu Asp Thr Ala Glu Ser Lys Ala Thr Ile Ala Asp Leu Ile Leu Ser  
 65 70 75 80

Ala Leu Glu Arg Ala Thr Val Phe Leu Glu Gln Arg Leu Pro Glu Ile  
 85 90 95

Asn Leu Asp Gly Met Val Gly Val Arg Val Leu Glu Glu Gln Leu Lys  
 100 105 110

Ser Val Arg Glu Lys Trp Ala Gln Glu Pro Leu Leu Gln Pro Leu Ser  
 115 120 125

Leu Arg Val Gly Met Leu Gly Glu Lys Leu Glu Ala Ala Ile Gln Arg  
 130 135 140

Ser Leu His Tyr Leu Lys Leu Ser Asp Pro Lys Tyr Leu Arg Gly Arg  
 145 150 155 160

Thr Ala Ala Ser Pro Ala Ala Ser Gln Thr Ser Ala Gly Ala Ser  
 165 170 175

&lt;210&gt; 229

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 229

Lys Ser Val Gly Arg Ser Ser Pro Thr Arg Arg Tyr Arg Ala Ala Val  
 1 5 10 15

Gly Glu Thr Pro Ala Gly Ala Gln Xaa Gln Leu Arg Gly Arg Glu Gly  
 20 25 30

Arg Trp Arg Arg Leu Gly Gln Pro Phe Pro Arg Gly Ser Thr Ala Leu  
 35 40 45

Arg

&lt;210&gt; 230

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

10050704.011302

&lt;400&gt; 230

Ile Phe Leu Phe Tyr Leu Pro Pro Ser Pro Pro Ser Arg Leu Leu Val  
 1 5 10 15

Pro Gly Tyr Trp Cys Leu Ala Ser Trp Gln Gly Pro Gly Thr Trp Thr  
 20 25 30

Ile Ser His Thr Thr Pro Arg Gly Gly Ile Phe Phe Tyr Phe Pro Tyr  
 35 40 45

Glu Lys Gln Ile Phe Leu Arg  
 50 55

&lt;210&gt; 231

&lt;211&gt; 479

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 231

Met Val Leu Leu His Trp Cys Leu Leu Trp Leu Leu Phe Pro Leu Ser  
 1 5 10 15

Ser Arg Thr Gln Lys Leu Pro Thr Arg Asp Glu Glu Leu Phe Gln Met  
 20 25 30

Gln Ile Arg Asp Lys Ala Phe Phe His Asp Ser Ser Val Ile Pro Asp  
 35 40 45

Gly Ala Glu Ile Ser Ser Tyr Leu Phe Arg Asp Thr Pro Lys Arg Tyr  
 50 55 60

Phe Phe Val Val Glu Glu Asp Asn Thr Pro Leu Ser Val Thr Val Thr  
 65 70 75 80

Pro Cys Asp Ala Pro Leu Glu Trp Lys Leu Ser Leu Gln Glu Leu Pro  
 85 90 95

Glu Asp Arg Ser Gly Glu Gly Ser Gly Asp Leu Glu Pro Leu Glu Gln  
 100 105 110

Gln Lys Gln Gln Ile Ile Asn Glu Glu Gly Thr Glu Leu Phe Ser Tyr  
 115 120 125

Lys Gly Asn Asp Val Glu Tyr Phe Ile Ser Ser Ser Ser Pro Ser Gly  
 130 135 140

Leu Tyr Gln Leu Asp Leu Leu Ser Thr Glu Lys Asp Thr His Phe Lys  
 145 150 155 160

Val Tyr Ala Thr Thr Thr Pro Glu Ser Asp Gln Pro Tyr Pro Glu Leu  
 165 170 175

Pro Tyr Asp Pro Arg Val Asp Val Thr Ser Leu Gly Arg Thr Thr Val  
 180 185 190

Thr Leu Ala Trp Lys Pro Ser Pro Thr Ala Ser Leu Leu Lys Gln Pro

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195					200					205					
Ile	Gln	Tyr	Cys	Val	Val	Ile	Asn	Lys	Glu	His	Asn	Phe	Lys	Ser	Leu
210						215					220				
Cys	Ala	Val	Glu	Ala	Lys	Leu	Ser	Ala	Asp	Asp	Ala	Phe	Met	Met	Ala
225					230					235					240
Pro	Lys	Pro	Gly	Leu	Asp	Phe	Ser	Pro	Phe	Asp	Phe	Ala	His	Phe	Gly
				245					250					255	
Phe	Pro	Ser	Asp	Asn	Ser	Gly	Lys	Glu	Arg	Ser	Phe	Gln	Ala	Lys	Pro
			260					265					270		
Ser	Pro	Lys	Leu	Gly	Arg	His	Val	Tyr	Ser	Arg	Pro	Lys	Val	Asp	Ile
		275					280					285			
Gln	Lys	Ile	Cys	Ile	Gly	Asn	Lys	Asn	Ile	Phe	Thr	Val	Ser	Asp	Leu
	290					295					300				
Lys	Pro	Asp	Thr	Gln	Tyr	Tyr	Phe	Asp	Val	Phe	Val	Val	Asn	Ile	Asn
305				310						315					320
Ser	Asn	Met	Ser	Thr	Ala	Tyr	Val	Gly	Thr	Phe	Ala	Arg	Thr	Lys	Glu
				325					330					335	
Glu	Ala	Lys	Gln	Lys	Thr	Val	Glu	Leu	Lys	Asp	Gly	Lys	Ile	Thr	Asp
			340					345					350		
Val	Phe	Val	Lys	Arg	Lys	Gly	Ala	Lys	Phe	Leu	Arg	Phe	Ala	Pro	Val
	355						360					365			
Ser	Ser	His	Gln	Lys	Val	Thr	Phe	Phe	Ile	His	Ser	Cys	Leu	Asp	Ala
	370					375					380				
Val	Gln	Ile	Gln	Val	Arg	Arg	Asp	Gly	Lys	Leu	Leu	Leu	Ser	Gln	Asn
385				390						395					400
Val	Glu	Gly	Ile	Gln	Gln	Phe	Gln	Leu	Arg	Gly	Lys	Pro	Lys	Ala	Lys
				405					410					415	
Tyr	Leu	Val	Arg	Leu	Lys	Gly	Asn	Lys	Lys	Gly	Ala	Ser	Met	Leu	Lys
			420					425					430		
Ile	Leu	Ala	Thr	Thr	Arg	Pro	Thr	Lys	Gln	Ser	Phe	Pro	Ser	Leu	Pro
	435					440						445			
Glu	Asp	Thr	Arg	Ile	Lys	Ala	Phe	Asp	Lys	Leu	Arg	Thr	Cys	Ser	Ser
	450					455					460				
Ala	Thr	Val	Ala	Trp	Leu	Gly	Thr	Gln	Glu	Arg	Asn	Lys	Phe	Cys	
465				470					475						

<210> 232  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

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&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 232

Xaa Arg Gly Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr  
 1 5 10 15

Arg Asp Ile Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val  
 20 25 30

Cys Leu Val Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe  
 35 40 45

Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile  
 50 55 60

&lt;210&gt; 233

&lt;211&gt; 229

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile  
 1 5 10 15

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr Val Cys Leu Val  
 20 25 30

Leu Leu Val Ala Asn Ile Leu Arg Ile Leu Phe Trp Phe Gly Arg Arg  
 35 40 45

Phe Glu Ser Pro Leu Leu Trp Gln Ser Ala Ile Met Ile Leu Thr Met  
 50 55 60

Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg Val Ala Asn Glu Leu  
 65 70 75 80

Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp Pro His His Phe Trp  
 85 90 95

Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys Val Leu Ala Phe Thr  
 100 105 110

Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile Asp Ser Ala Leu Phe  
 115 120 125

Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr Glu Ala Met Leu Gly  
 130 135 140

Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly Met  
 145 150 155 160

Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys Thr  
 165 170 175

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Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln Phe Ser Val Cys Gly  
 180 185 190

Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu Gly Gln Ala Tyr Ala  
 195 200 205

Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala Val His Pro Thr  
 210 215 220

Gly Thr Lys Ala Leu  
 225

<210> 234  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Met Val Phe Gly Gly Val Val Pro Tyr Val Pro Gln Tyr Arg Asp Ile  
 1 5 10 15

Arg Arg Thr Gln Asn Ala Asp Gly Phe Ser Thr Tyr  
 20 25

<210> 235  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Gly Arg Arg Phe Glu Ser Pro Leu Leu Trp Gln Ser  
 1 5 10

<210> 236  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 236  
 Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln Ser Thr Glu Gly  
 1 5 10 15

Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly Asp Ala Phe Lys  
 20 25 30

Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
 35 40

<210> 237  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 237

Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His Ala  
 1 5 10 15

Val His Pro Thr Gly Thr Lys Ala Leu  
 20 25

&lt;210&gt; 238

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

Arg Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe  
 1 5 10 15

Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln  
 20 25 30

&lt;210&gt; 239

&lt;211&gt; 383

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 239

Arg Thr Gly Trp Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro His  
 1 5 10 15

Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly  
 20 25 30

Pro Arg Leu Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg  
 35 40 45

Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala  
 50 55 60

Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser  
 65 70 75 80

Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met  
 85 90 95

Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met  
 100 105 110

Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu  
 115 120 125

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Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu  
130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
145 150 155 160

Gly Gln Ser Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
165 170 175

Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
180 185 190

Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
195 200 205

Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
210 215 220

Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn  
225 230 235 240

Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala  
245 250 255

Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala  
260 265 270

Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu  
275 280 285

Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
290 295 300

Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln  
305 310 315 320

Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr  
325 330 335

Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu  
340 345 350

Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu  
355 360 365

Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
370 375 380

<210> 240

<211> 24

<212> PRT

<213> Homo sapiens

<400> 240

Arg Val Arg Lys Trp Glu Arg Ser Gln Pro Arg Leu Leu Tyr Thr Gly  
1 5 10 15

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Lys Leu Ser Gly Pro Gln Ala Arg  
20

<210> 241  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 241  
Ser Pro Ala Trp Ala Gln Leu Pro Gln Ser His Pro Leu Pro Thr Ala  
1 5 10 15  
Ser Gly Leu Lys Asn Ile Pro Gly Ile Arg Gly Ala Leu Thr Thr Arg  
20 25 30  
Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu Leu  
35 40 45  
Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly Met  
50 55 60  
Ser Leu Pro Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr  
65 70 75 80  
Tyr Phe Phe Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu  
85 90 95  
Gly

<210> 242  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 242  
Arg Pro Ser Glu Ser Pro Pro Ala Trp Asn Leu Ala Ile Ser Asn Leu  
1 5 10 15  
Leu Pro Ser Ala Ser Trp Ile Lys Leu Glu Thr Ala Gly Thr Pro Gly  
20 25 30  
Met Ser Leu Pro  
35

<210> 243  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 243  
Ile Leu Pro Cys Leu Cys Ser Phe Leu Asp Leu Thr Tyr Tyr Phe Phe  
1 5 10 15

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Cys Phe Cys Phe His Pro Ser Cys Leu Ser Cys Pro Glu Gly  
 20 25 30

<210> 244  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Met Gly Arg Asp Ile Pro Gly Val Pro Ala Val Ser Ser Leu Ile Gln  
 1 5 10 15  
 Glu Ala Leu Gly Arg Arg Leu Leu Met Ala Arg Phe Gln Ala Gly Gly  
 20 25 30  
 Asp Ser Glu Gly Arg Val Val Asn Ala Pro Leu Ile Pro Gly Ile Phe  
 35 40 45  
 Phe Arg Pro Glu Ala Val Gly Arg Gly Trp Leu Cys Gly Ser Trp Ala  
 50 55 60  
 Gln Ala Gly Leu Gln Asn His Pro Leu Trp Gly Asp Asp Gly Gly Gln  
 65 70 75 80  
 Phe Gln Gly Pro Pro Ala Ile His Trp Ala Val Trp Leu Arg Leu Ser  
 85 90 95  
 Ala Val Ala Thr Glu Ala Leu Ser Gln Ala Thr Asp Ala Lys Asp Gly  
 100 105 110  
 Gln Asp Asp Gln Glu Asp Asp Asp Glu Asp Pro His Gly Ala Arg Glu  
 115 120 125  
 Glu Leu Val Leu Leu Ala Ala Ala Val Thr Thr Ala Phe Glu Ser Phe  
 130 135 140  
 Gly Ala Gly Lys Asp Glu Thr Thr Phe Gly Cys Asn Leu Leu Gly Ala  
 145 150 155 160  
 Ser Gln Gln Ala Glu Gln Gln Gly Gly Arg Glu Ala Gly Asp Pro Ser  
 165 170 175  
 Leu Gly His Pro Gly Leu Gly Ala Thr Glu Leu Ser Cys Val Glu Lys  
 180 185 190  
 Ala Gly Leu Arg Pro Leu Pro Leu Pro Asp Ala  
 195 200

<210> 245  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Ala Arg Ala Ala Arg Gly Lys Ile Glu Ser Asn Leu Ile  
 1 5 10

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<210> 246  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 246  
 Gly Pro Gln Val Asp Trp Gln Arg Pro Leu  
           1                          5                          10

<210> 247  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 247  
 His Met Leu Trp Asn Arg Arg Lys Leu Arg Cys Cys Phe His Lys Phe  
           1                          5                          10                          15  
 Val Leu Ser Leu Ala Leu Gly Pro Ser Phe Leu Phe Trp Lys Asn Leu  
                           20                          25                          30  
 Ser Glu Lys Arg Asp Leu Ser Ser Val Cys Ser Ala Phe Leu Tyr Lys  
                           35                          40                          45  
 Thr Arg Asn Gly Val Asn Ser Arg Asp Met Glu Val Ile Thr Pro Asp  
           50                          55                          60  
 Ser Leu Cys Trp Leu Leu Arg Phe Ser Gln Gly Glu Val  
           65                          70                          75

<210> 248  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 248  
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly  
           1                          5                          10                          15  
 Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr  
                           20                          25                          30  
 Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu  
           35                          40                          45  
 Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His  
           50                          55                          60  
 Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala  
           65                          70                          75

<210> 249  
 <211> 284

10050704.011802

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (187)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 249

Met	Val	Thr	Arg	Ala	Gly	Ala	Gly	Thr	Ala	Val	Ala	Gly	Ala	Val	Val	1	5	10	15
Val	Ala	Leu	Leu	Ser	Ala	Ala	Leu	Ala	Leu	Tyr	Gly	Pro	Pro	Leu	Asp	20	25	30	
Ala	Val	Leu	Glu	Arg	Ala	Phe	Ser	Leu	Arg	Lys	Ala	His	Ser	Ile	Lys	35	40	45	
Asp	Met	Glu	Asn	Thr	Leu	Gln	Leu	Val	Arg	Asn	Ile	Ile	Pro	Pro	Leu	50	55	60	
Ser	Ser	Thr	Lys	His	Lys	Gly	Gln	Asp	Gly	Arg	Ile	Gly	Val	Val	Gly	65	70	75	80
Gly	Cys	Gln	Glu	Tyr	Thr	Gly	Ala	Pro	Tyr	Phe	Ala	Arg	Ile	Ser	Ala	85	90	95	
Leu	Lys	Val	Gly	Ala	Asp	Leu	Ser	His	Val	Phe	Cys	Ala	Ser	Ala	Ala	100	105	110	
Ala	Pro	Val	Ile	Lys	Ala	Tyr	Ser	Pro	Glu	Leu	Ile	Val	His	Pro	Val	115	120	125	
Leu	Asp	Ser	Pro	Asn	Ala	Val	His	Glu	Val	Glu	Lys	Trp	Leu	Pro	Arg	130	135	140	
Leu	His	Ala	Leu	Val	Val	Gly	Pro	Gly	Leu	Gly	Arg	Asp	Asp	Ala	Leu	145	150	155	160
Leu	Arg	Asn	Val	Gln	Gly	Ile	Leu	Glu	Val	Ser	Lys	Ala	Arg	Asp	Ile	165	170	175	
Pro	Val	Val	Ile	Asp	Ala	Asp	Gly	Leu	Trp	Xaa	Val	Ala	Gln	Gln	Pro	180	185	190	
Ala	Leu	Ile	His	Gly	Tyr	Arg	Lys	Ala	Val	Leu	Thr	Pro	Asn	His	Val	195	200	205	
Glu	Phe	Ser	Arg	Leu	Tyr	Asp	Ala	Val	Leu	Arg	Gly	Pro	Met	Asp	Ser	210	215	220	
Asp	Asp	Ser	His	Gly	Ser	Val	Leu	Arg	Leu	Ser	Gln	Ala	Leu	Gly	Asn	225	230	235	240
Val	Thr	Val	Val	Gln	Lys	Gly	Glu	Arg	Asp	Ile	Leu	Ser	Asn	Gly	Gln	245	250	255	
Gln	Val	Leu	Val	Cys	Ser	Gln	Glu	Gly	Ser	Ser	Ala	Gly	Val	Glu	Gly				

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260

265

270

Lys Gly Thr Ser Cys Arg Ala Pro Trp Ala Ser Trp  
 275 280

&lt;210&gt; 250

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

Met Ala Trp Val Glu Met Ile Val His Pro Val Leu Asp Ser Pro Asn  
 1 5 10 15

Ala Val His Glu Val Glu Lys Trp Leu Pro Arg Leu His Ala Leu Val  
 20 25 30

Val Gly Thr Gly Leu Gly Arg Asp Asp Ala Leu Leu Arg Asn Val Gln  
 35 40 45

Gly Ile Leu Glu Val Ser Lys Ala Arg Asp Ile Pro Val Val Ile Asp  
 50 55 60

Ala Asp Gly Leu Trp Leu Val Ala Gln Gln Pro Ala Leu Ile His Gly  
 65 70 75 80

Tyr Arg Lys Ala Val Leu Thr Pro Asn His Val Glu Phe Ser Arg Leu  
 85 90 95

Tyr Asp Ala Val Leu Arg Gly Pro Met Asp Ser Asp Asp Arg Cys Leu  
 100 105 110

Val Pro

&lt;210&gt; 251

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

Glu Phe Gly Thr Arg Leu Arg Ala Val Ala Ser Val Gly Ala Ala Leu  
 1 5 10 15

Ile Leu Phe Pro Cys Leu Leu Tyr Gly Ala Tyr Ala Phe Leu Pro Phe  
 20 25 30

Asp Val Pro Arg Leu Pro Thr Met Ser Ser Arg Leu Ile Tyr Thr Leu  
 35 40 45

Arg Cys Gly Val Phe Ala Thr Phe Pro Ile Val Leu Gly Ile Leu Val  
 50 55 60

Tyr Gly Leu Ser Leu Leu Cys Phe Ser Ala Leu Arg Pro Phe Gly Glu  
 65 70 75 80

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Pro Arg Arg Glu Val Glu Ile His Arg Arg Tyr Val Ala Gln Ser Val  
85 90 95

Gln Leu Phe Ile Leu Tyr Phe Phe Asn Leu Ala Val Leu Ser Thr Tyr  
100 105 110

Leu Pro Gln Asp Thr Leu Lys Leu Leu Pro Leu Leu Thr Gly Leu Phe  
115 120 125

Ala Val Ser Arg Leu Ile Tyr Trp Leu Thr Phe Ala Val Gly Arg Ser  
130 135 140

Phe Arg Gly Phe Gly Tyr Gly Leu Thr Phe Leu Pro Leu Leu Ser Met  
145 150 155 160

Leu Met Trp Asn Leu Tyr Tyr Met Phe Val Val Glu Pro Glu Arg Met  
165 170 175

Leu Thr Ala Thr Glu Ser Arg Leu Asp Tyr Pro Asp His Ala Arg Ser  
180 185 190

Ala Ser Asp Tyr Arg Pro Arg Pro Trp Gly  
195 200

<210> 252

<211> 22

<212> PRT

<213> Homo sapiens

<400> 252

Thr Trp Gly His Val His Thr Thr Ala Arg Ala Tyr Cys Val Ser Arg  
1 5 10 15

Trp Leu Val Cys Leu Arg  
20

<210> 253

<211> 30

<212> PRT

<213> Homo sapiens

<400> 253

Gly Thr Ser Phe Ser Ile Leu Ser Leu Ala Ala Cys Leu Val Val Glu  
1 5 10 15

Ala Val Val Trp Lys Ser Val Thr Lys Asn Arg Thr Ser Tyr  
20 25 30

<210> 254

<211> 241

<212> PRT

<213> Homo sapiens

<400> 254

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu

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1                      5                      10                      15  
 Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly  
                     20                      25                      30  
 Cys Pro Leu Ala Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg  
                     35                      40                      45  
 Glu Val Tyr Thr Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr  
                     50                      55                      60  
 Lys Ala Leu Leu Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val  
                     65                      70                      75                      80  
 Asn Ile Thr Ile Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser  
                     85                      90                      95  
 Ile Gly Asp Lys Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile  
                     100                      105                      110  
 Ser Lys Ser Ile Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly  
                     115                      120                      125  
 Phe Gly Leu Thr Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile  
                     130                      135                      140  
 Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe  
                     145                      150                      155                      160  
 Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe  
                     165                      170                      175  
 Ser Leu Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly  
                     180                      185                      190  
 Ser Ser Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe  
                     195                      200                      205  
 Asn Asn Leu Phe Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu  
                     210                      215                      220  
 Ala Thr Ser Ser Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu  
                     225                      230                      235                      240  
 Asn

&lt;210&gt; 255

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 255

His Trp Gly Leu Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu  
                     1                      5                      10                      15

Thr Ser Arg Ser Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly

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20

25

30

Cys Pro Leu Ala  
35

<210> 256  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 256  
Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr  
1 5 10 15  
Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu  
20 25 30

Ala Phe Ala  
35

<210> 257  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 257  
Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile Thr Ile Val  
1 5 10 15  
Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys Pro Cys Lys  
20 25 30

Gln Glu Lys  
35

<210> 258  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 258  
Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile Gly Val Leu Thr Pro Leu  
1 5 10 15  
Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr Thr Val Phe Pro Gly Thr  
20 25 30

Asn Leu Val Phe  
35

<210> 259  
<211> 36  
<212> PRT  
<213> Homo sapiens

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<400> 259  
 His Ile Ile Phe Ala Ile Leu Asn Val Phe Gln Gly Leu Phe Ile Leu  
 1 5 10 15

Leu Phe Gly Cys Leu Trp Asp Leu Lys Val Gln Glu Ala Leu Leu Asn  
 20 25 30

Lys Phe Ser Leu  
 35

<210> 260  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Ser Arg Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser  
 1 5 10 15

Thr Pro Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn  
 20 25 30

Leu Phe Gly  
 35

<210> 261  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser Ser  
 1 5 10 15

Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn  
 20 25

<210> 262  
 <211> 237  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Met Leu Phe Tyr Arg Leu Val Phe Ile Leu His Glu Thr Ser Arg Ser  
 1 5 10 15

Thr Gln Lys Ala Ile Ala Phe Cys Leu Gly Tyr Gly Cys Pro Leu Ala  
 20 25 30

Ile Ser Val Ile Thr Leu Gly Ala Thr Gln Pro Arg Glu Val Tyr Thr  
 35 40 45

Arg Lys Asn Val Cys Trp Leu Asn Trp Glu Asp Thr Lys Ala Leu Leu  
 50 55 60

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Ala Phe Ala Ile Pro Ala Leu Ile Ile Val Val Val Asn Ile Thr Ile  
65 70 75 80

Thr Ile Val Val Ile Thr Lys Ile Leu Arg Pro Ser Ile Gly Asp Lys  
85 90 95

Pro Cys Lys Gln Glu Lys Ser Ser Leu Phe Gln Ile Ser Lys Ser Ile  
100 105 110

Gly Val Leu Thr Pro Leu Leu Gly Leu Thr Trp Gly Phe Gly Leu Thr  
115 120 125

Thr Val Phe Pro Gly Thr Asn Leu Val Phe His Ile Ile Phe Ala Ile  
130 135 140

Leu Asn Val Phe Gln Gly Leu Phe Ile Leu Leu Phe Gly Cys Leu Trp  
145 150 155 160

Asp Leu Lys Val Gln Glu Ala Leu Leu Asn Lys Phe Ser Leu Ser Arg  
165 170 175

Trp Ser Ser Gln His Ser Lys Ser Thr Ser Leu Gly Ser Ser Thr Pro  
180 185 190

Val Phe Ser Met Ser Ser Pro Ile Ser Arg Arg Phe Asn Asn Leu Phe  
195 200 205

Gly Lys Thr Gly Thr Tyr Asn Val Ser Thr Pro Glu Ala Thr Ser Ser  
210 215 220

Ser Leu Glu Asn Ser Ser Ser Ala Ser Ser Leu Leu Asn  
225 230 235

<210> 263

<211> 150

<212> PRT

<213> Homo sapiens

<400> 263

Met Glu His Lys Val Gly Pro Trp Glu His Ser Gly Glu Thr Lys Thr  
1 5 10 15

Pro Ser Glu Ala Gln Glu Trp Cys Glu Asp Pro Asn Ala Leu Ala Asp  
20 25 30

Leu Lys Gln Ala Ala Leu Leu Leu Leu Ala Trp Leu Val Ser Asn Gly  
35 40 45

Arg Pro Gln Asp Leu Gly Asp Asp His Asn Ser Asp Gly Tyr Val His  
50 55 60

His His Asn Asp Gln Cys Trp Asp Gly Glu Ser Gln Gln Gly Leu Gly  
65 70 75 80

Val Leu Pro Val Glu Pro Thr Asp Ile Leu Pro Arg Ile Asp Phe Pro  
85 90 95

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Gly Leu Gly Gly Ser Gln Arg Asp Asp Arg Asp Gly Lys Trp Ala Ala  
100 105 110

Ile Ala Lys Thr Glu Gly Asn Gly Phe Leu Ser Gly Pro Ala Cys Phe  
115 120 125

Met Gln Asn Glu Asn Gln Ala Ile Glu Gln His Glu Ala Pro Val Ser  
130 135 140

Ala Ser Arg Arg Arg Arg  
145 150

<210> 264

<211> 14

<212> PRT

<213> Homo sapiens

<400> 264

Thr Arg Pro Leu Trp Ile Pro Arg Ser Leu Val Leu Val Glu  
1 5 10

<210> 265

<211> 43

<212> PRT

<213> Homo sapiens

<400> 265

Glu Lys Val Gly Leu Leu Pro Thr Thr Ile Ala Ile Ile Gln Ile Ile  
1 5 10 15

Ser Lys Asp Ser Val Ser Ala Ile Ser Asp Ser Cys Leu Arg Pro Ser  
20 25 30

Glu Arg Gly Phe Gly Arg Leu Leu Lys Gln Arg  
35 40

<210> 266

<211> 211

<212> PRT

<213> Homo sapiens

<400> 266

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu  
1 5 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro  
20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln  
35 40 45

Ala Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala  
50 55 60

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Val Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly  
65 70 75 80

Gly Thr Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro  
85 90 95

Gly Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro  
100 105 110

Gly Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg  
115 120 125

Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His  
130 135 140

Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg  
145 150 155 160

Tyr Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly  
165 170 175

Asp Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn  
180 185 190

Pro Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val  
195 200 205

Thr Arg Ala  
210

<210> 267

<211> 42

<212> PRT

<213> Homo sapiens

<400> 267

Arg Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu  
1 5 10 15

Leu Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro  
20 25 30

Ser Glu Asp Asn Ser Gly Arg Thr Ala Pro  
35 40

<210> 268

<211> 40

<212> PRT

<213> Homo sapiens

<400> 268

Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu Pro Thr Asp Ser Ala  
1 5 10 15

Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser Gly Asp Cys Val Pro  
20 25 30

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Ser Pro Cys His Asn Gly Gly Thr  
                   35                  40

<210> 269  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 Cys Leu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr  
   1                  5                  10                  15

Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp  
                   20                  25                  30

Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe  
                   35                  40

<210> 270  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 270  
 Ser Thr Arg Arg Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr  
   1                  5                  10                  15

Gly Ala His Leu Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile  
                   20                  25                  30

Asn Asn Arg Tyr Arg Glu Tyr Gln Trp Ile Gly  
                   35                  40

<210> 271  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser Asp Gly Val  
   1                  5                  10                  15

Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp Ser Tyr Phe  
                   20                  25                  30

Leu Ser Gly Glu Asn Cys Val Val Thr Arg Ala  
                   35                  40

<210> 272  
 <211> 483  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 272

Met Ala Val Cys Ala Thr Pro Ser Ser His Pro Ala Ser Ala Val Val  
 1 5 10 15  
 Gly Ala Cys Leu Val Ser Arg Leu Ser Ser Ser Ser Pro Thr Arg Leu  
 20 25 30  
 Ala Ser Pro Ile Ser Thr Ala Ala Ser Thr Ser Thr Ala Ser Glu Thr  
 35 40 45  
 Arg Pro Ser Leu Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn  
 50 55 60  
 Pro Ala Ser Asp Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu  
 65 70 75 80  
 Glu Glu Leu Gln Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly  
 85 90 95  
 Ala Ile Tyr Ser Ile Pro Ile Met Glu Asp Gly Gly Gly Gly Ser Ser  
 100 105 110  
 Thr Pro Glu Asp Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu  
 115 120 125  
 Thr Gln Ser Met Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys  
 130 135 140  
 Ala Leu Glu Glu Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu  
 145 150 155 160  
 Glu Glu Glu Glu Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro  
 165 170 175  
 Ser Glu Leu Ser Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro  
 180 185 190  
 Ala Ala Gln Glu Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu  
 195 200 205  
 Gln Pro Gly Ala Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg  
 210 215 220  
 Pro Pro Arg Val His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg  
 225 230 235 240  
 Glu Arg Asn Leu Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg  
 245 250 255  
 Glu Val Gly Glu Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg  
 260 265 270  
 Gly Glu Ser Glu Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu  
 275 280 285  
 Pro Ala Thr Arg Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser  
 290 295 300

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Glu Asp Asn Ser Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala  
305 310 315 320

Gln Pro Val Leu Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val  
325 330 335

Val Pro Ala Ser Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly  
340 345 350

Thr Cys Leu Glu Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly  
355 360 365

Tyr Gly Gly Asp Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly  
370 375 380

Trp Asp Ala Phe Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg  
385 390 395 400

Ser Trp Glu Glu Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu  
405 410 415

Ala Ser Ile Ser Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr  
420 425 430

Arg Glu Tyr Gln Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp  
435 440 445

Phe Leu Trp Ser Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro  
450 455 460

Gly Gln Pro Asp Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val Thr  
465 470 475 480

Arg Val Ala

<210> 273

<211> 427

<212> PRT

<213> Homo sapiens

<400> 273

Ser Ala Ile Pro Glu Ala Ser Asn Pro Ala Ser Asn Pro Ala Ser Asp  
1 5 10 15

Gly Leu Glu Ala Ile Val Thr Val Thr Glu Thr Leu Glu Glu Leu Gln  
20 25 30

Leu Pro Gln Glu Ala Thr Glu Ser Glu Ser Arg Gly Ala Ile Tyr Ser  
35 40 45

Ile Pro Ile Met Glu Asp Gly Gly Gly Gly Ser Ser Thr Pro Glu Asp  
50 55 60

Pro Ala Glu Ala Pro Arg Thr Leu Leu Glu Phe Glu Thr Gln Ser Met  
65 70 75 80

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Val Pro Pro Thr Gly Phe Ser Glu Glu Glu Gly Lys Ala Leu Glu Glu  
                     85                    90                    95  
 Glu Glu Lys Tyr Glu Asp Glu Glu Glu Lys Glu Glu Glu Glu Glu  
                     100                    105                    110  
 Glu Glu Val Glu Asp Glu Ala Leu Trp Ala Trp Pro Ser Glu Leu Ser  
                     115                    120                    125  
 Ser Pro Gly Pro Glu Ala Ser Leu Pro Thr Glu Pro Ala Ala Gln Glu  
                     130                    135                    140  
 Glu Ser Leu Ser Gln Ala Pro Ala Arg Ala Val Leu Gln Pro Gly Ala  
                     145                    150                    155                    160  
 Ser Pro Leu Pro Asp Gly Glu Ser Glu Ala Ser Arg Pro Pro Arg Val  
                     165                    170                    175  
 His Gly Pro Pro Thr Glu Thr Leu Pro Thr Pro Arg Glu Arg Asn Leu  
                     180                    185                    190  
 Ala Ser Pro Ser Pro Ser Thr Leu Val Glu Ala Arg Glu Val Gly Glu  
                     195                    200                    205  
 Ala Thr Gly Gly Pro Glu Leu Ser Gly Val Pro Arg Gly Glu Ser Glu  
                     210                    215                    220  
 Glu Thr Gly Ser Ser Glu Gly Ala Pro Ser Leu Leu Pro Ala Thr Arg  
                     225                    230                    235                    240  
 Ala Pro Glu Gly Thr Arg Glu Leu Glu Ala Pro Ser Glu Asp Asn Ser  
                     245                    250                    255  
 Gly Arg Thr Ala Pro Ala Gly Thr Ser Val Gln Ala Gln Pro Val Leu  
                     260                    265                    270  
 Pro Thr Asp Ser Ala Ser Arg Gly Gly Val Ala Val Val Pro Ala Ser  
                     275                    280                    285  
 Gly Asp Cys Val Pro Ser Pro Cys His Asn Gly Gly Thr Cys Leu Glu  
                     290                    295                    300  
 Glu Glu Glu Gly Val Arg Cys Leu Cys Leu Pro Gly Tyr Gly Gly Asp  
                     305                    310                    315                    320  
 Leu Cys Asp Val Gly Leu Arg Phe Cys Asn Pro Gly Trp Asp Ala Phe  
                     325                    330                    335  
 Gln Gly Ala Cys Tyr Lys His Phe Ser Thr Arg Arg Ser Trp Glu Glu  
                     340                    345                    350  
 Ala Glu Thr Gln Cys Arg Met Tyr Gly Ala His Leu Ala Ser Ile Ser  
                     355                    360                    365  
 Thr Pro Glu Glu Gln Asp Phe Ile Asn Asn Arg Tyr Arg Glu Tyr Gln  
                     370                    375                    380  
 Trp Ile Gly Leu Asn Asp Arg Thr Ile Glu Gly Asp Phe Leu Trp Ser

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385                      390                      395                      400

Asp Gly Val Pro Leu Leu Tyr Glu Asn Trp Asn Pro Gly Gln Pro Asp  
                                  405                      410                      415

Ser Tyr Phe Leu Ser Gly Glu Asn Cys Val Val  
                                  420                      425

<210> 274  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Met Ala Gln Leu Phe Leu Pro Leu Leu Ala Ala Leu Val Leu Ala Gln  
   1                                  5                                  10                                  15

Ala Pro Ala Ala Leu Ala Asp Val Leu Glu Gly Asp Ser Ser Glu Asp  
                                   20                                  25                                  30

Arg Ala Phe Arg Val Arg Ile Ala Gly Asp Ala Pro Leu Gln Gly Val  
                                   35                                  40                                  45

Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro  
                                   50                                  55                                  60

Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr  
   65                                  70                                  75                                  80

Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val  
                                   85                                  90                                  95

Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala  
                                   100                                  105                                  110

Tyr Pro Ala Ser Leu Thr Asp Val Ser Leu Ala Leu Ser Glu Leu Arg  
                                   115                                  120                                  125

Pro Asn Asp Ser Gly Ile Tyr Arg Cys Glu Val Gln His Gly Ile Asp  
                                   130                                  135                                  140

Asp Ser Ser Asp Ala Val Glu Val Lys Val Lys Gly Ile Pro Ser Arg  
   145                                  150                                  155                                  160

Pro His Glu Arg Pro Val Thr Glu Thr Trp Met Ala Ser Pro Gly Ser  
                                   165                                  170                                  175

Gly Thr Met Val Trp Trp Thr Arg Met Thr Ser Met Met Cys Thr Val  
                                   180                                  185                                  190

Met Leu Lys Thr  
                                   195

<210> 275  
 <211> 247  
 <212> PRT

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&lt;213&gt; Homo sapiens

&lt;400&gt; 275

Met Val Gly His Ala Trp Arg Arg Arg Lys Gly Ser Ala Ala Tyr Val  
 1 5 10 15

Cys Leu Ala Met Gly Gly Thr Cys Ala Met Leu Ala Ser Ala Ser Ala  
 20 25 30

Thr Pro Ala Gly Thr Pro Ser Arg Ala Pro Ala Thr Ser Thr Phe Pro  
 35 40 45

His Glu Gly Ala Gly Arg Arg Gln Arg Pro Ser Ala Gly Cys Thr Ala  
 50 55 60

Arg Ile Trp Pro Ala Ser Ala His Pro Arg Asn Arg Thr Ser Ser Thr  
 65 70 75 80

Thr Gly Thr Gly Ser Thr Ser Gly Ser Asp Ser Thr Thr Gly Pro Ser  
 85 90 95

Lys Ala Thr Ser Cys Gly Arg Met Ala Ser Pro Cys Ser Met Arg Thr  
 100 105 110

Gly Thr Leu Gly Ser Leu Thr Ala Thr Ser Cys Leu Glu Arg Thr Ala  
 115 120 125

Trp Ser Leu Val Trp His Asp Gln Gly Gln Trp Ser Asp Val Pro Cys  
 130 135 140

Asn Tyr His Leu Ser Tyr Thr Cys Lys Met Gly Leu Val Ser Cys Gly  
 145 150 155 160

Pro Pro Pro Glu Leu Pro Leu Ala Gln Val Phe Gly Arg Pro Arg Leu  
 165 170 175

Arg Tyr Glu Val Asp Thr Val Leu Arg Tyr Arg Cys Arg Glu Gly Leu  
 180 185 190

Ala Gln Arg Asn Leu Pro Leu Ile Arg Cys Gln Glu Asn Gly Arg Trp  
 195 200 205

Gly Gly Pro Pro Asp Phe Leu Cys Cys Pro Glu Asp Leu Pro Glu Phe  
 210 215 220

Leu Gln Pro Arg Gly Arg Asp Pro Glu Gly Thr Ser Arg Glu Val Tyr  
 225 230 235 240

Leu Gly Thr Phe Gly Arg Arg  
 245

&lt;210&gt; 276

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 276

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Ser Tyr Lys Asp Ser Leu Val Pro Arg Gln Glu Gly Gly Leu Phe Trp  
 1 5 10 15

Glu Arg Lys Gly Leu Phe Ser Cys Phe Leu Ser Cys Lys Val Ser Ser  
 20 25 30

Ser Gln Ser Gln Phe Ser Leu Cys Pro Gly Met Lys Lys Asp Ser Leu  
 35 40 45

Glu Val Arg Ser Lys Met Val Cys Leu Gly Gln Ile Ser Phe Thr Val  
 50 55 60

Leu Ala Val Ile Leu Gln Trp Gln Phe Gln Asn Phe Gly Gln Arg Pro  
 65 70 75 80

Ser Ile Phe Leu Arg Pro His Phe Leu Phe Met Cys Val Val Ile Leu  
 85 90 95

Leu Gln Asn Phe Leu Leu Ser Ser Ala Lys Thr Gly Leu Leu Ser His  
 100 105 110

Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg Thr Arg Val Arg Lys Thr  
 115 120 125

<210> 277

<211> 86

<212> PRT

<213> Homo sapiens

<400> 277

Met Lys Lys Asp Ser Leu Glu Val Arg Ser Lys Met Val Cys Leu Gly  
 1 5 10 15

Gln Ile Ser Phe Thr Val Leu Ala Val Ile Leu Gln Trp Gln Phe Gln  
 20 25 30

Asn Phe Gly Gln Arg Pro Ser Ile Phe Leu Arg Pro His Phe Leu Phe  
 35 40 45

Met Cys Val Val Ile Leu Leu Gln Asn Phe Leu Leu Ser Ser Ala Lys  
 50 55 60

Thr Gly Leu Leu Ser His Glu Trp Glu Arg Leu Gly Leu Gln Ala Arg  
 65 70 75 80

Thr Arg Val Arg Lys Thr  
 85

<210> 278

<211> 81

<212> PRT

<213> Homo sapiens

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&lt;400&gt; 278

Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln  
 1 5 10 15

Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu  
 20 25 30

Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile  
 35 40 45

Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg  
 50 55 60

Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser  
 65 70 75 80

Trp

&lt;210&gt; 279

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 279

Val Pro Ile Ser Asp Ser Lys Ser Ile Gln Lys Ser Glu Leu Leu Gly  
 1 5 10 15

Leu Leu Lys Thr Tyr Asn Cys Tyr His  
 20 25

&lt;210&gt; 280

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile Ile Glu Gly  
 1 5 10 15

Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile  
 20 25

&lt;210&gt; 281

&lt;211&gt; 344

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

Gly Thr Arg Ser Ser His Val Pro Ile Ser Asp Ser Lys Ser Ile Gln  
 1 5 10 15

Lys Ser Glu Leu Leu Gly Leu Leu Lys Thr Tyr Asn Cys Tyr His Glu  
 20 25 30

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Gly Lys Ser Phe Gln Leu Arg His Arg Glu Glu Glu Gly Thr Leu Ile  
 35 40 45  
 Ile Glu Gly Leu Leu Asn Ile Ala Trp Gly Leu Arg Arg Pro Ile Arg  
 50 55 60  
 Leu Gln Met Gln Asp Asp Arg Glu Gln Val His Leu Pro Ser Thr Ser  
 65 70 75 80  
 Trp Met Pro Arg Arg Pro Ser Cys Pro Leu Gly Cys Trp Ser Leu Leu  
 85 90 95  
 Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala Ala Ile Ser Ala Leu Gln  
 100 105 110  
 Leu Ser Val Phe Arg Lys Glu Pro Ser Pro Gln Asn Gly Asn Ile Thr  
 115 120 125  
 Ala Gln Gly Pro Ser Ile Gln Pro Val His Lys Ala Glu Ser Ser Thr  
 130 135 140  
 Asp Ser Ser Gly Pro Leu Glu Glu Ala Glu Glu Ala Pro Gln Leu Met  
 145 150 155 160  
 Arg Thr Lys Ser Asp Ala Ser Cys Met Ser Gln Arg Arg Pro Lys Cys  
 165 170 175  
 Arg Ala Pro Gly Glu Ala Gln Arg Ile Arg Arg His Arg Phe Ser Ile  
 180 185 190  
 Asn Gly His Phe Tyr Asn His Lys Thr Ser Val Phe Thr Pro Ala Tyr  
 195 200 205  
 Gly Ser Val Thr Asn Val Arg Val Asn Ser Thr Met Thr Thr Leu Gln  
 210 215 220  
 Val Leu Thr Leu Leu Leu Asn Lys Phe Arg Val Glu Asp Gly Pro Ser  
 225 230 235 240  
 Glu Phe Ala Leu Tyr Ile Val His Glu Ser Gly Glu Arg Thr Lys Leu  
 245 250 255  
 Lys Asp Cys Glu Tyr Pro Leu Ile Ser Arg Ile Leu His Gly Pro Cys  
 260 265 270  
 Glu Lys Ile Ala Arg Ile Phe Leu Met Glu Ala Asp Leu Gly Val Glu  
 275 280 285  
 Val Pro His Glu Val Ala Gln Tyr Ile Lys Phe Glu Met Pro Val Leu  
 290 295 300  
 Asp Ser Phe Val Glu Lys Leu Lys Glu Glu Glu Glu Arg Glu Ile Ile  
 305 310 315 320  
 Lys Leu Thr Met Lys Phe Gln Ala Leu Arg Leu Thr Met Leu Gln Arg  
 325 330 335  
 Leu Glu Gln Leu Val Glu Ala Lys

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340

<210> 282  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 282  
 Gly Cys Trp Ser Leu Leu Leu Gly Leu Ser Ser Leu Ser Leu Pro Ala  
 1 5 10 15

Ala Ile Ser Ala Leu Gln Leu Ser Val Phe Arg  
 20 25

<210> 283  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 283  
 Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro  
 1 5 10 15

Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly  
 20 25 30

Val Val Ala Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro  
 35 40 45

Ala Thr Thr Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg  
 50 55 60

Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His Ser His Gly Gln Ala  
 65 70 75 80

Val Pro His Leu Gln Pro His His Gln Ala Arg Arg Gln Leu Ala Gln  
 85 90 95

Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys His Ser His Val Ala  
 100 105 110

Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro Trp Ala Phe Arg Asn  
 115 120 125

Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly Glu Gly Arg Gly His  
 130 135 140

Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly Gly Met  
 145 150 155 160

Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp Gln Arg  
 165 170 175

Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val  
 180 185 190

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Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu  
 195 200 205

Gly Ser Ser Arg Leu His Pro Phe Pro Val His Leu Cys Pro Val Leu  
 210 215 220

Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val  
 225 230 235 240

Leu Pro Ser

<210> 284

<211> 162

<212> PRT

<213> Homo sapiens

<400> 284

Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr  
 1 5 10 15

Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser  
 20 25 30

Trp His Ser Ala His Ala Ala Phe Ile Tyr Trp Thr Arg Asn Thr His  
 35 40 45

Met Ser Leu Pro Glu Glu Arg Gly Thr Ala Arg Leu Ala His Gly Pro  
 50 55 60

Ser Gly Ile Phe Ile His Gly Pro Ala Cys Thr Ala Arg Ala Arg Ala  
 65 70 75 80

Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro Ala Ala Arg Pro Val Leu  
 85 90 95

Gly Ala Cys Trp Asp Gln Pro His Pro Gly Pro Asn Ala Cys Val Trp  
 100 105 110

Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg Glu Thr Leu Arg  
 115 120 125

Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg Ala Ile Pro Cys  
 130 135 140

Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu Ser Thr Phe Val  
 145 150 155 160

Gln Cys

<210> 285

<211> 35

<212> PRT

<213> Homo sapiens

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&lt;400&gt; 285

Thr Arg Thr Thr Ser Cys Arg Thr Pro Ser Thr Thr Ser His Leu Pro  
 1 5 10 15

Thr Ser Ser Thr Arg Ser Ser Pro Pro Trp Ser Leu Gly Pro Pro Gly  
 20 25 30

Val Val Ala  
 35

&lt;210&gt; 286

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Pro Thr Ala Ser Pro Ala Pro Thr Ala Ser Val Ala Pro Ala Thr Thr  
 1 5 10 15

Arg Arg Leu Ser Cys Ser Ala Leu Met Met Asn Ser Arg Cys Gly Leu  
 20 25 30

Gln Trp Arg Lys  
 35

&lt;210&gt; 287

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

Cys Trp Arg His Ser His Gly Gln Ala Val Pro His Leu Gln Pro His  
 1 5 10 15

His Gln Ala Arg Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu  
 20 25 30

Leu Asp Gln Lys  
 35

&lt;210&gt; 288

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 288

His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro  
 1 5 10 15

Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly  
 20 25 30

Glu Gly Arg  
 35

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<210> 289  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 289  
 Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser Cys Ala Gly  
 1 5 10 15  
 Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu Cys Val Asp  
 20 25 30  
 Gln Arg Leu Gln  
 35

<210> 290  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 290  
 Pro Ser Ser Pro Ser Ser Pro Arg Asp Ser Gln Ala Glu Val Gly Lys  
 1 5 10 15  
 Pro Trp Leu Pro His Thr Pro Cys Asn Thr Leu Ser Asp Leu Gly Ser  
 20 25 30  
 Ser Arg Leu  
 35

<210> 291  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 His Pro Phe Pro Val His Leu Cys Pro Val Leu Asp Ser Pro His Pro  
 1 5 10 15  
 Gly Gln Glu Trp Gly Cys Gly Arg Ser Val Val Leu Pro Ser  
 20 25 30

<210> 292  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Ile Leu Gly Ala Gly Cys Ser Gly Gly Ser Ala Gly Ala Ile Ala Thr  
 1 5 10 15  
 Val Arg Leu Cys Pro Thr Ser Ser Leu Thr Thr Arg Pro Gly Gly Ser  
 20 25 30

208110-40205001

Trp His Ser Ala His Ala  
35

<210> 293  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 293  
Ala Phe Ile Tyr Trp Thr Arg Asn Thr His Met Ser Leu Pro Glu Glu  
1 5 10 15  
Arg Gly Thr Ala Arg Leu Ala His Gly Pro Ser Gly Ile Phe Ile His  
20 25 30

Gly Pro Ala Cys  
35

<210> 294  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 294  
Thr Ala Arg Ala Arg Ala Glu Asp Thr Gly Ser Lys Ala Tyr Ala Pro  
1 5 10 15  
Ala Ala Arg Pro Val Leu Gly Ala Cys Trp Asp Gln Pro His Pro Gly  
20 25 30

Pro Asn

<210> 295  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 295  
Ala Cys Val Trp Thr Ser Gly Cys Ser Leu Leu Ala Pro Pro Pro Arg  
1 5 10 15

Glu Thr Leu Arg Leu Arg Ser Ala Ser Arg Gly Ser Pro Thr His Arg  
20 25 30

Ala Ile Pro Cys Leu Thr Trp Ala Leu Pro Ala Cys Ile Pro Ser Leu  
35 40 45

Ser Thr Phe Val Gln Cys  
50

<210> 296  
<211> 184  
<212> PRT

20811040205001

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 296

Met Met Asn Ser Arg Cys Gly Leu Gln Trp Arg Lys Cys Trp Arg His  
1 5 10 15

Ser His Gly Gln Ala Val Pro His Leu Gln Pro His His Gln Ala Arg  
20 25 30

Arg Gln Leu Ala Gln Cys Ser Arg Arg Leu Tyr Leu Leu Asp Gln Lys  
35 40 45

His Ser His Val Ala Ser Arg Gly Thr Gly Asp Ser Gln Ala Arg Pro  
50 55 60

Trp Ala Phe Arg Asn Ile Tyr Thr Trp Pro Ser Leu His Cys Pro Gly  
65 70 75 80

Glu Gly Arg Gly His Trp Glu Gln Gly Leu Cys Pro Cys Cys Pro Ser  
85 90 95

Cys Ala Gly Gly Met Leu Gly Pro Ala Ala Pro Arg Pro Gln Cys Leu  
100 105 110

Cys Val Asp Gln Arg Leu Gln Pro Ser Ser Pro Ser Ser Pro Arg Asp  
115 120 125

Ser Gln Ala Glu Val Gly Lys Pro Trp Leu Pro His Thr Pro Cys Asn  
130 135 140

Thr Leu Ser Asp Leu Gly Ser Ser Arg Leu His Pro Xaa Pro Val His  
145 150 155 160

Leu Cys Pro Val Leu Asp Ser Pro His Pro Gly Gln Glu Trp Gly Cys  
165 170 175

Gly Arg Ser Val Val Leu Pro Ser  
180

<210> 297

<211> 278

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

10050704.011802

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 297

Ile	Arg	Gln	Ser	Leu	Gly	Gly	Glu	Ser	Ser	Ile	Met	Ser	Glu	Ile	Arg
1				5				10						15	
Gly	Lys	Pro	Ile	Glu	Ser	Ser	Cys	Met	Tyr	Gly	Thr	Cys	Cys	Leu	Trp
			20					25					30		
Gly	Lys	Thr	Tyr	Ser	Ile	Gly	Phe	Leu	Arg	Phe	Cys	Lys	Gln	Ala	Thr
		35					40					45			
Leu	Gln	Phe	Cys	Val	Val	Lys	Pro	Leu	Met	Ala	Val	Ser	Thr	Val	Val
	50					55					60				
Leu	Gln	Ala	Phe	Gly	Lys	Tyr	Arg	Asp	Gly	Asp	Phe	Asp	Val	Thr	Ser
65					70					75					80
Gly	Tyr	Leu	Tyr	Val	Thr	Ile	Ile	Tyr	Asn	Ile	Ser	Val	Ser	Leu	Ala
				85					90					95	
Leu	Tyr	Ala	Leu	Phe	Leu	Phe	Tyr	Phe	Ala	Thr	Arg	Glu	Leu	Leu	Ser
			100					105					110		
Pro	Tyr	Ser	Pro	Val	Leu	Lys	Phe	Phe	Met	Val	Lys	Ser	Val	Ile	Phe
		115						120					125		
Leu	Ser	Phe	Trp	Gln	Gly	Met	Leu	Leu	Ala	Ile	Leu	Glu	Lys	Cys	Gly
	130					135					140				
Ala	Ile	Pro	Lys	Ile	His	Ser	Ala	Arg	Val	Ser	Val	Gly	Glu	Gly	Thr
145					150					155					160
Val	Ala	Ala	Gly	Tyr	Gln	Asp	Phe	Ile	Ile	Cys	Val	Glu	Met	Phe	Phe
				165					170					175	
Ala	Ala	Leu	Ala	Leu	Arg	Xaa	Ala	Phe	Xaa	Tyr	Lys	Val	Tyr	Ala	Asp
		180						185						190	
Lys	Arg	Leu	Asp	Ala	Gln	Gly	Arg	Cys	Ala	Pro	Met	Lys	Ser	Ile	Ser
		195					200					205			
Ser	Ser	Leu	Lys	Glu	Thr	Met	Asn	Pro	His	Asp	Ile	Val	Gln	Asp	Ala
		210				215					220				
Ile	His	Asn	Phe	Ser	Pro	Ala	Tyr	Gln	Gln	Tyr	Thr	Gln	Gln	Ser	Thr
225					230					235					240
Leu	Glu	Pro	Gly	Pro	Thr	Trp	Arg	Gly	Gly	Ala	His	Gly	Leu	Ser	Arg
				245					250					255	
Ser	His	Ser	Leu	Ser	Gly	Ala	Arg	Asp	Asn	Glu	Lys	Thr	Leu	Leu	Leu
			260				265						270		
Ser	Ser	Asp	Asp	Glu	Phe										
			275												

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<210> 298  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 298  
 Pro His Arg Pro Pro Thr Pro Gln Ser Asn Phe Ser Ser His Pro Ser  
           1                  5                  10                  15  
 Ser Gln Ala Leu Thr Ile Leu Lys Arg Leu Val Gly Thr Leu Leu Ser  
                   20                  25                  30  
 Ala Thr Gly Lys Leu Val Arg Ala Arg Xaa Arg Ala Trp Gly  
           35                  40                  45

<210> 299  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Gly Val Met Arg Leu Arg Thr Arg Gln Lys Ser Arg Arg Gln Arg Lys  
           1                  5                  10                  15  
 Glu Lys Met Ser Arg Arg Lys Ser Lys Arg Lys Met Lys Arg Lys Arg  
                   20                  25                  30  
 Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln Pro Met Arg Leu Ser  
           35                  40                  45  
 Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln Val Leu Thr Gln Ser  
           50                  55                  60  
 Trp Val Leu Ser Ser Arg Arg Gln Leu Leu Val Val Arg Ala Gly Pro  
           65                  70                  75                  80  
 His Pro Pro Trp Pro Leu Phe Asp Leu Pro His Ser Val Thr Pro Gln  
                   85                  90                  95  
 Ala Ser His Thr Ser Val  
           100

<210> 300  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 300  
 Met Lys Arg Lys Arg Arg Arg Arg Gln Arg Ala Arg Gly Gln Ser Gln  
           1                  5                  10                  15

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Pro Met Arg Leu Ser Phe His Pro Phe Pro Thr Leu Val Phe Phe Gln  
                   20                  25                  30

Val Leu Thr Gln Ser Trp Val Leu Ser Ser Arg  
           35                  40

<210> 301  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Arg Gln Leu Leu Val Val Arg Ala Gly Pro His Pro Pro Trp Pro Leu  
   1                  5                  10                  15

Phe Asp Leu Pro His Ser Val Thr Pro Gln Ala Ser His Thr Ser Val  
                   20                  25                  30

<210> 302  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 His His Cys Pro Ala Leu Gln Pro Gly Thr His Thr His Thr His Thr  
   1                  5                  10                  15

His Thr His Thr His Thr Arg Arg Gly Met Cys Leu Val Gln Ile Tyr  
                   20                  25                  30

Ile Lys Leu Thr His Arg Gln Ile Pro Cys Leu Cys Leu Leu Gly Pro  
           35                  40                  45

Asp Ser Ala Val  
       50

<210> 303  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 303  
 His Glu Ile Leu Gln Pro Ala Val  
   1                  5

<210> 304  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 304

208770-40205007

Asn Ser Arg Val Asp Pro Arg Val Arg Asp Gly Leu Met Tyr Gln Lys  
 1 5 10 15

Phe Arg Asn Gln Phe Leu Ser Phe Ser Met Tyr Gln Ser Phe Val Gln  
 20 25 30

Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly Cys Leu Tyr Arg Leu Arg Ala  
 35 40 45

Leu Gly Glu Arg His Thr  
 50

<210> 305

<211> 116

<212> PRT

<213> Homo sapiens

<400> 305

Met Tyr Gln Ser Phe Val Gln Phe Leu Gln Tyr Tyr Tyr Gln Ser Gly  
 1 5 10 15

Cys Leu Tyr Arg Leu Arg Ala Leu Gly Glu Arg His Thr Met Asp Leu  
 20 25 30

Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu Thr Phe Leu  
 35 40 45

Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe Asn Ala Leu  
 50 55 60

Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu Trp Gln Val  
 65 70 75 80

Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly Asn Phe Phe  
 85 90 95

Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln Arg His Gly  
 100 105 110

Ser Lys Lys Asp  
 115

<210> 306

<211> 9

<212> PRT

<213> Homo sapiens

<400> 306

Ile Leu Met Pro Phe Cys Gly Leu His  
 1 5

<210> 307

<211> 72

<212> PRT

<213> Homo sapiens

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&lt;400&gt; 307

Met Pro Phe Cys Gly Leu His Met Ala Ser Pro Ser Ile Ile Leu Leu  
 1 5 10 15

Leu Ile Phe Phe Phe Phe Phe Phe Phe Ser Val Cys Ser Val Ser Gln  
 20 25 30

Tyr Met Phe Glu Asn Glu Cys Glu Ser Met Ser Arg Arg Arg Gly Arg  
 35 40 45

Gly Leu Gly Arg Ser Arg Leu Lys Val Glu Gln Gly Pro Asp Ala Asp  
 50 55 60

Leu His Pro Arg Thr Leu Gly Ser  
 65 70

&lt;210&gt; 308

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

Leu Pro Leu Val Leu Pro Pro Thr Pro Pro Pro Pro Trp Leu Pro Ser  
 1 5 10 15

Leu

&lt;210&gt; 309

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala  
 1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp  
 20 25 30

Thr Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly  
 35 40 45

Gln Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu  
 50 55 60

Ile Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe  
 65 70 75 80

Gln Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala  
 85 90 95

Phe Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr  
 100 105 110

10050704.011802

Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser  
 115 120 125

Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe  
 130 135 140

Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu  
 145 150 155 160

Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr  
 165 170 175

Glu Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro  
 180 185 190

Thr Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr  
 195 200 205

His Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
 210 215 220

<210> 310

<211> 37

<212> PRT

<213> Homo sapiens

<400> 310

Thr Thr Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala  
 1 5 10 15

Leu Leu Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp  
 20 25 30

Thr Met Ser Pro Ser  
 35

<210> 311

<211> 34

<212> PRT

<213> Homo sapiens

<400> 311

Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu Leu Glu Gln  
 1 5 10 15

Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr Gly Cys Thr  
 20 25 30

Asn Ala

<210> 312

<211> 37

<212> PRT

<213> Homo sapiens

10050704.011802

<400> 312  
 Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val Asp His Ala Arg Ser  
           1                  5                  10                  15

Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro Ala Gly Leu Leu Phe  
                   20                  25                  30

Val Cys Leu His Cys  
                   35

<210> 313  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Ala Leu Ser Tyr Gln Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala  
           1                  5                  10                  15  
 Tyr Leu Arg Ser Val Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu  
                   20                  25                  30

Ser Gly

<210> 314  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Val Phe Phe Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu  
           1                  5                  10                  15  
 Cys Glu Trp Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe  
                   20                  25                  30

Ser Tyr Glu Phe Gly Ala Val Ser Ser  
           35                  40

<210> 315  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro Gly Arg Ala Cys Lys  
           1                  5                  10                  15  
 Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu Asn Cys Ala Pro Glu  
                   20                  25                  30

Ser Ile Ala Met Ile  
                   35

10050704.011802

<210> 316  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400> 316  
 Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu  
 1 5 10 15  
 Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala  
 20 25 30  
 Ser Trp Trp Leu Ala Thr Phe Arg Trp Ile Met Pro Gly Leu Cys Thr  
 35 40 45  
 Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala  
 50 55 60  
 Cys Thr Val Leu Ser Pro Thr Lys Gly Pro Pro Pro Arg Trp Thr Trp  
 65 70 75 80  
 Leu Trp Pro Ile Cys Glu Val Cys Trp Leu Ser Ser Pro Leu Ser Pro  
 85 90 95  
 Trp Ser Ser Val Glu Ser Ser Leu Ser Met Arg Val Leu Ser Cys Asn  
 100 105 110  
 Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser Ser Ile Ser Ser Phe  
 115 120 125  
 Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln Ser Pro Gln Thr His  
 130 135 140  
 Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser Pro Pro  
 145 150 155 160  
 Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg Ala Ser  
 165 170 175  
 Leu

<210> 317  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 317  
 Ser Ala Ser Cys Ala Thr Gly Ser Ser Trp Ser Arg Val Gly Thr Leu  
 1 5 10 15  
 Gly Leu Thr Pro Arg His Ser Ser Gln Ala Ala Pro Thr Leu Arg Ala  
 20 25 30  
 Ser Trp Trp Leu Ala Thr

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35

<210> 318  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 318  
 Phe Arg Trp Ile Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp  
 1 5 10 15  
 Pro Ser Leu Arg Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro  
 20 25 30

Thr

<210> 319  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 319  
 Lys Gly Pro Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val  
 1 5 10 15  
 Cys Trp Leu Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser  
 20 25 30

Leu Ser Met Arg  
 35

<210> 320  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 320  
 Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val Ser  
 1 5 10 15  
 Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly Gln  
 20 25 30

Ser Pro Gln  
 35

<210> 321  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 321  
 Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala Gly Pro Ala Ser

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1                      5                      10                      15  
 Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr Val Pro Pro Arg  
                     20                      25                      30  
 Ala Ser Leu  
                     35  
  
 <210> 322  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 322  
 Met Tyr Ala Leu Trp Arg Thr Gly Pro Thr Thr Ser Pro Ala Leu Leu  
   1                      5                      10                      15  
 Thr Leu Leu Ser Lys Gly Val Pro Arg Pro Ala Ala Pro Trp Thr Met  
                     20                      25                      30  
 Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln Leu  
                     35                      40                      45  
 Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile Thr  
   50                      55                      60  
 Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln Val  
   65                      70                      75                      80  
 Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe Pro  
                     85                      90                      95  
 Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln Gly  
                     100                      105                      110  
 Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val Leu  
   115                      120                      125  
 Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe Val  
   130                      135                      140  
 His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp Val  
   145                      150                      155                      160  
 Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu Phe  
                     165                      170                      175  
 Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr Pro  
                     180                      185                      190  
 Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His Leu  
   195                      200                      205  
 Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
   210                      215

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<210> 323  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Met Ser Pro Ser Ser Val Ala Leu Ile Cys Leu Leu Arg Tyr Gly Gln  
 1 5 10 15  
 Leu Leu Glu Gln Ser Arg His Ser Trp Val Asn Thr Thr Ala Leu Ile  
 20 25 30  
 Thr Gly Cys Thr Asn Ala Ala Gly Leu Leu Val Val Gly Asn Phe Gln  
 35 40 45  
 Val Asp His Ala Arg Ser Leu His Tyr Val Gly Ala Gly Val Ala Phe  
 50 55 60  
 Pro Ala Gly Leu Leu Phe Val Cys Leu His Cys Ala Leu Ser Tyr Gln  
 65 70 75 80  
 Gly Ala Thr Ala Pro Leu Asp Leu Ala Val Ala Tyr Leu Arg Ser Val  
 85 90 95  
 Leu Ala Val Ile Ala Phe Ile Thr Leu Val Leu Ser Gly Val Phe Phe  
 100 105 110  
 Val His Glu Ser Ser Gln Leu Gln His Gly Ala Ala Leu Cys Glu Trp  
 115 120 125  
 Val Cys Val Ile Asp Ile Leu Ile Phe Tyr Gly Thr Phe Ser Tyr Glu  
 130 135 140  
 Phe Gly Ala Val Ser Ser Asp Thr Leu Val Ala Ala Leu Gln Pro Thr  
 145 150 155 160  
 Pro Gly Arg Ala Cys Lys Ser Ser Gly Ser Ser Ser Thr Ser Thr His  
 165 170 175  
 Leu Asn Cys Ala Pro Glu Ser Ile Ala Met Ile  
 180 185

<210> 324  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile  
 1 5 10 15  
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val  
 20 25 30  
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro  
 35 40 45

10050704.011303

Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro  
 50 55 60

Leu Ile Ser  
 65

<210> 325  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 325  
 Met Pro Gly Leu Cys Thr Thr Leu Glu Leu Ala Trp Pro Ser Leu Arg  
 1 5 10 15

Gly Cys Ser Leu Phe Ala Cys Thr Val Leu Ser Pro Thr Lys Gly Pro  
 20 25 30

Pro Pro Arg Trp Thr Trp Leu Trp Pro Ile Cys Glu Val Cys Trp Leu  
 35 40 45

Ser Ser Pro Leu Ser Pro Trp Ser Ser Val Glu Ser Ser Leu Ser Met  
 50 55 60

Arg Val Leu Ser Cys Asn Met Gly Gln Pro Cys Val Ser Gly Cys Val  
 65 70 75 80

Ser Ser Ile Ser Ser Phe Ser Met Ala Pro Ser Ala Thr Ser Leu Gly  
 85 90 95

Gln Ser Pro Gln Thr His Trp Trp Leu His Cys Ser Leu Pro Leu Ala  
 100 105 110

Gly Pro Ala Ser Pro Pro Gly Ala Ala Ala Pro Pro Pro Thr Ser Thr  
 115 120 125

Val Pro Pro Arg Ala Ser Leu  
 130 135

<210> 326  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 326  
 Ser Cys His Ser Gly Gln Gln Ser Glu Thr Val Ser Glu Lys Lys  
 1 5 10 15

<210> 327  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 327  
 Ser Pro Pro Ile Ser Phe Thr Leu Thr Ser Gly Leu Pro Asn Pro

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1

5

10

15

&lt;210&gt; 328

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 328

Gln Phe His Thr Gly Asn Ser Tyr Asp His Asp Tyr Ala Lys Xaa Xaa

1

5

10

15

Tyr Gly Asn Leu Tyr Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg Tyr Arg

20

25

30

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Lys Ile Phe Leu Ser

35

40

45

Lys Leu Ile Val Cys Phe Leu Ser Thr Trp Leu Pro Phe Val Leu Leu

50

55

60

Gln Val Ile Ile Val Xaa Leu Lys Val Gln Ile Pro Ala Tyr Ile Glu

65

70

75

80

&lt;210&gt; 329

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

Ile Pro Ile Arg Phe Val Asn Ile Phe Phe His Ser Ala Gly Cys Leu

1

5

10

15

Phe Ile Phe Leu Ile

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20

<210> 330  
 <211> 655  
 <212> PRT  
 <213> Homo sapiens

<400> 330

Tyr Arg Ile Pro Leu Ala Ala Asp Ala Gly Leu Leu Gln Phe Leu Gln  
 1 5 10 15  
 Glu Phe Ser Gln Gln Thr Ile Ser Arg Thr His Glu Ile Lys Lys Gln  
 20 25 30  
 Val Asp Gly Leu Ile Arg Glu Thr Lys Ala Thr Asp Cys Arg Leu His  
 35 40 45  
 Asn Val Phe Asn Asp Phe Leu Met Leu Ser Asn Thr Gln Phe Ile Glu  
 50 55 60  
 Asn Arg Val Tyr Asp Glu Glu Val Glu Glu Pro Val Leu Lys Ala Glu  
 65 70 75 80  
 Ala Glu Lys Thr Glu Gln Glu Lys Thr Arg Glu Gln Lys Glu Val Asp  
 85 90 95  
 Leu Ile Pro Lys Val Gln Glu Ala Val Asn Tyr Gly Leu Gln Val Leu  
 100 105 110  
 Asp Ser Ala Phe Glu Gln Leu Asp Ile Lys Ala Gly Asn Ser Asp Ser  
 115 120 125  
 Glu Glu Asp Asp Ala Asn Gly Arg Val Glu Leu Ile Leu Glu Pro Lys  
 130 135 140  
 Asp Leu Tyr Ile Asp Arg Pro Leu Pro Tyr Leu Ile Gly Ser Lys Leu  
 145 150 155 160  
 Phe Met Glu Gln Glu Asp Val Gly Leu Gly Glu Leu Ser Ser Glu Glu  
 165 170 175  
 Gly Ser Val Gly Ser Asp Arg Gly Ser Ile Val Asp Thr Glu Glu Glu  
 180 185 190  
 Lys Glu Glu Glu Glu Ser Asp Glu Asp Phe Ala His His Ser Asp Asn  
 195 200 205  
 Glu Gln Asn Gln His Thr Thr Gln Met Ser Asp Glu Glu Glu Asp Asp  
 210 215 220  
 Asp Gly Cys Asp Leu Phe Ala Asp Ser Glu Lys Glu Glu Glu Asp Ile  
 225 230 235 240  
 Glu Asp Ile Glu Glu Asn Thr Arg Pro Lys Arg Ser Arg Pro Thr Ser  
 245 250 255  
 Phe Ala Asp Glu Leu Ala Ala Arg Ile Lys Gly Asp Ala Met Gly Arg

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260	265	270
Val Asp Glu Glu Pro Thr Thr 275	Leu Pro Ser Gly Glu Ala Lys Pro Arg 280	
Lys Thr Leu Lys Glu Lys Lys Glu Arg Arg Thr Pro Ser Asp Asp Glu 290		300
Glu Asp Asn Leu Phe Ala Pro Pro Lys Leu Thr Asp Glu Asp Phe Ser 305	310	315 320
Pro Phe Gly Ser Gly Gly Gly Leu Phe Ser Gly Gly Lys Gly Leu Phe 325	330	335
Asp Asp Glu Asp Glu Glu Ser Asp Leu Phe Met Glu Ala Pro Gln Asp 340	345	350
Arg Gln Ala Gly Ala Ser Val Lys Glu Glu Ser Ser Ser Ser Lys Pro 355	360	365
Gly Lys Lys Ile Pro Ala Gly Ala Val Ser Val Phe Leu Gly Asp Thr 370	375	380
Asp Val Phe Gly Ala Ala Ser Val Pro Ser Leu Lys Glu Pro Gln Lys 385	390	395 400
Pro Glu Gln Pro Thr Pro Arg Lys Ser Pro Tyr Gly Pro Pro Pro Thr 405	410	415
Gly Leu Phe Asp Asp Asp Asp Gly Asp Asp Asp Asp Phe Phe Ser 420	425	430
Ala Pro His Ser Lys Pro Ser Lys Thr Arg Lys Val Gln Ser Thr Ala 435	440	445
Asp Ile Phe Gly Asp Glu Glu Gly Asp Leu Phe Lys Glu Lys Ala Val 450	455	460
Ala Ser Pro Glu Ala Thr Val Ser Gln Thr Asp Glu Asn Lys Ala Arg 465	470	475 480
Ala Glu Lys Lys Asp Leu Phe Ser Ser Gln Ser Ala Ser Asn Leu Lys 485	490	495
Gly Ala Ser Leu Leu Pro Gly Lys Leu Pro Thr Ser Val Ser Leu Phe 500	505	510
Asp Asp Glu Asp Glu Glu Asp Asn Leu Phe Gly Gly Thr Ala Ala Lys 515	520	525
Lys Gln Thr Leu Ser Leu Gln Ala Gln Arg Glu Glu Lys Ala Lys Ala 530	535	540
Ser Glu Leu Ser Lys Lys Lys Ala Ser Ala Leu Leu Phe Ser Ser Asp 545	550	555 560
Glu Glu Asp Gln Trp Asn Ile Pro Ala Ser Gln Thr His Leu Ala Ser 565	570	575

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Asp Ser Arg Ser Lys Gly Glu Pro Arg Asp Ser Gly Thr Leu Gln Ser  
580 585 590

Gln Glu Ala Lys Ala Val Lys Lys Thr Ser Leu Phe Glu Glu Asp Lys  
595 600 605

Glu Asp Asp Leu Phe Ala Ile Ala Lys Asp Ser Gln Lys Lys Thr Gln  
610 615 620

Arg Val Ser Leu Leu Phe Glu Asp Asp Val Asp Ser Gly Gly Ser Leu  
625 630 635 640

Phe Gly Ser Pro Pro Thr Ser Val Pro Pro Ala Thr Lys Lys Lys  
645 650 655

<210> 331

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 331

Phe Leu Pro Asp His Pro Ala Lys Pro Pro Ser Ser Leu Val His Ser  
1 5 10 15

Pro Phe Val Phe Gly Xaa Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln  
20 25 30

Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn  
35 40 45

Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His Lys  
50 55 60

Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser  
65 70 75 80

Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu Lys  
85 90 95

Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg  
100 105 110

Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp  
115 120 125

Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro Asn  
130 135 140

His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser Ser  
145 150 155 160

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<400> 334  
Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser Asp Ser  
1 5 10 15



His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr Leu Lys  
20 25 30

Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro Gly Pro  
35 40 45

Gly Ser Arg Leu His Leu Leu Ser Gln Arg Leu Ser Gln Gln  
50 55 60

<210> 335

<211> 487

<212> PRT

<213> Homo sapiens

<400> 335

Met Val Glu Phe Cys Glu Ser Asp Glu Gly Glu Ala Trp Ser Leu Ala  
1 5 10 15

Arg Asp Arg Gly Gly Asn Gln Tyr Leu Arg His Glu Asp Glu Gln Ala  
20 25 30

Leu Leu Asp Gln Asn Ser Gln Thr Pro Pro Pro Ser Pro Phe Ser Val  
35 40 45

Gln Ala Phe Asn Lys Gly Ala Ser Cys Ser Ala Gln Gly Phe Asp Tyr  
50 55 60

Gly Leu Gly Asn Ser Lys Gly Asp Gln Leu Ser Ala Ile Leu Asn Ser  
65 70 75 80

Ile Gln Ser Arg Pro Asn Leu Pro Ala Pro Ser Ile Phe Asp Gln Ala  
85 90 95

Ala Lys Pro Pro Ser Ser Leu Val His Ser Pro Phe Val Phe Gly Gln  
100 105 110

Pro Leu Ser Phe Gln Gln Pro Gln Leu Gln Lys Ser Pro Ser Arg Asn  
115 120 125

Leu Ala Ser Arg Glu Arg Ile Tyr Lys Asn Tyr Gly Val Ala Gly Pro  
130 135 140

Ala Ser Ala Leu Ser Ser Leu Ser His Lys Leu Lys Gly Asp Arg Gly  
145 150 155 160

Asn Ile Ser Thr Ser Ser Lys Pro Ala Ser Thr Ser Gly Lys Ser Glu  
165 170 175

Leu Ser Ser Lys His Ser Arg Ser Leu Lys Pro Asp Gly Arg Met Ser  
180 185 190

Arg Thr Thr Ala Asp Gln Lys Lys Pro Arg Gly Thr Glu Ser Leu Ser  
195 200 205

Ala Ser Glu Ser Leu Ile Leu Lys Ser Asp Ala Ala Lys Leu Arg Ser  
210 215 220

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Asp Ser His Ser Arg Ser Leu Ser Pro Asn His Asn Thr Leu Gln Thr  
 225 230 235 240  
 Leu Lys Ser Asp Gly Arg Met Pro Ser Ser Ser Arg Ala Glu Ser Pro  
 245 250 255  
 Gly Pro Gly Ser Arg Leu Ser Ser Pro Lys Pro Lys Thr Leu Pro Ala  
 260 265 270  
 Asn Arg Ser Ser Pro Ser Gly Ala Ser Ser Pro Arg Ser Ser Ser Pro  
 275 280 285  
 His Asp Lys Asn Leu Pro Gln Lys Ser Thr Ala Pro Val Lys Thr Lys  
 290 295 300  
 Leu Asp Pro Pro Arg Glu Arg Ser Lys Ser Asp Ser Tyr Thr Leu Asp  
 305 310 315 320  
 Pro Asp Thr Leu Arg Lys Lys Lys Met Pro Leu Thr Glu Pro Leu Arg  
 325 330 335  
 Gly Arg Ser Thr Ser Pro Lys Pro Lys Ser Val Pro Lys Asp Ser Thr  
 340 345 350  
 Asp Ser Pro Gly Ser Glu Asn Arg Ala Pro Ser Pro His Val Val Gln  
 355 360 365  
 Glu Asn Leu His Ser Glu Val Val Glu Val Cys Thr Ser Ser Thr Leu  
 370 375 380  
 Lys Thr Asn Ser Leu Thr Asp Ser Thr Cys Asp Asp Ser Ser Glu Phe  
 385 390 395 400  
 Lys Ser Val Asp Glu Gly Ser Asn Lys Val His Phe Ser Ile Gly Lys  
 405 410 415  
 Ala Pro Leu Lys Asp Glu Gln Glu Met Arg Ala Ser Pro Lys Ile Ser  
 420 425 430  
 Arg Lys Cys Ala Asn Arg His Thr Arg Pro Lys Lys Glu Lys Ser Ser  
 435 440 445  
 Phe Leu Phe Lys Gly Asp Gly Ser Gly Ala Phe Arg Ala Ser Gln Ser  
 450 455 460  
 Lys Pro Cys Leu Leu Leu Trp Pro Asn Val Pro Glu Leu Cys Leu Leu  
 465 470 475 480  
 Pro Ser Ser Gly Met Lys Ala  
 485

&lt;210&gt; 336

&lt;211&gt; 526

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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&lt;400&gt; 336

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly  
 1 5 10 15

Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp  
 20 25 30

Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu  
 35 40 45

Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu  
 50 55 60

Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro  
 65 70 75 80

Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys  
 85 90 95

Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln  
 100 105 110

Leu Ser Ala Ile Leu Asn Ser Ile Gln Ser Arg Pro Asn Leu Pro Ala  
 115 120 125

Pro Ser Ile Phe Asp Gln Ala Ala Lys Pro Pro Ser Ser Leu Val His  
 130 135 140

Ser Pro Phe Val Phe Gly Gln Pro Leu Ser Phe Gln Gln Pro Gln Leu  
 145 150 155 160

Gln Lys Ser Pro Ser Arg Asn Leu Ala Ser Arg Glu Arg Ile Tyr Lys  
 165 170 175

Asn Tyr Gly Val Ala Gly Pro Ala Ser Ala Leu Ser Ser Leu Ser His  
 180 185 190

Lys Leu Lys Gly Asp Arg Gly Asn Ile Ser Thr Ser Ser Lys Pro Ala  
 195 200 205

Ser Thr Ser Gly Lys Ser Glu Leu Ser Ser Lys His Ser Arg Ser Leu  
 210 215 220

Lys Pro Asp Gly Arg Met Ser Arg Thr Thr Ala Asp Gln Lys Lys Pro  
 225 230 235 240

Arg Gly Thr Glu Ser Leu Ser Ala Ser Glu Ser Leu Ile Leu Lys Ser  
 245 250 255

Asp Ala Ala Lys Leu Arg Ser Asp Ser His Ser Arg Ser Leu Ser Pro  
 260 265 270

Asn His Asn Thr Leu Gln Thr Leu Lys Ser Asp Gly Arg Met Pro Ser  
 275 280 285

Ser Ser Arg Ala Glu Ser Pro Gly Pro Gly Ser Arg Leu Ser Ser Pro  
 290 295 300

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Lys Pro Lys Thr Leu Pro Ala Asn Arg Ser Ser Pro Ser Gly Ala Ser  
305 310 315 320

Ser Pro Arg Ser Ser Ser Pro His Asp Lys Asn Leu Pro Gln Lys Ser  
325 330 335

Thr Ala Pro Val Lys Thr Lys Leu Asp Pro Pro Arg Glu Arg Ser Lys  
340 345 350

Ser Asp Ser Tyr Thr Leu Asp Pro Asp Thr Leu Arg Lys Lys Lys Met  
355 360 365

Pro Leu Thr Glu Pro Leu Arg Gly Arg Ser Thr Ser Pro Lys Pro Lys  
370 375 380

Ser Val Pro Lys Asp Ser Thr Asp Ser Pro Gly Ser Glu Asn Arg Ala  
385 390 395 400

Pro Ser Pro His Val Val Gln Glu Asn Leu His Ser Glu Val Val Glu  
405 410 415

Val Cys Thr Ser Ser Thr Leu Lys Thr Asn Ser Leu Thr Asp Ser Thr  
420 425 430

Cys Asp Asp Ser Ser Glu Phe Lys Ser Val Asp Glu Gly Ser Asn Lys  
435 440 445

Val His Phe Ser Ile Gly Lys Ala Pro Leu Lys Asp Glu Gln Glu Met  
450 455 460

Arg Ala Ser Pro Lys Ile Ser Arg Lys Cys Ala Asn Arg His Thr Arg  
465 470 475 480

Pro Lys Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser Gly  
485 490 495

Ala Phe Arg Ala Ser Gln Ser Lys Pro Cys Leu Leu Leu Trp Pro Asn  
500 505 510

Val Pro Glu Leu Cys Leu Leu Pro Ser Ser Gly Met Lys Ala  
515 520 525

<210> 337

<211> 112

<212> PRT

<213> Homo sapiens

<400> 337

Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly  
1 5 10 15

Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly Thr Trp  
20 25 30

Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu  
35 40 45

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Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu  
 50 55 60  
 Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln Thr Pro  
 65 70 75 80  
 Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala Ser Cys  
 85 90 95  
 Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly Asp Gln  
 100 105 110

<210> 338  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Asn Gly Tyr Thr Glu Ala Trp Cys Leu Ser Phe Asn Gln His Leu Gly  
 1 5 10 15

Lys Ser Leu Leu Val Pro  
 20

<210> 339  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Leu Gly Lys Ser Leu Leu Val Pro Val Asp Val Thr Asn Ser Glu Gly  
 1 5 10 15

Thr Trp Val Gln Leu Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser  
 20 25 30

Asp Glu Gly Glu Ala Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln  
 35 40 45

Tyr Leu Arg His Glu Asp Glu Gln Ala Leu Leu Asp Gln Asn Ser Gln  
 50 55 60

Thr Pro Pro Pro Ser Pro Phe Ser Val Gln Ala Phe Asn Lys Gly Ala  
 65 70 75 80

Ser Cys Ser Ala Gln Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Gly  
 85 90 95

Asp Gln

<210> 340

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<211> 301  
 <212> PRT  
 <213> Homo sapiens

<400> 340

Lys	Gly	Asp	Arg	Gly	Asn	Ile	Ser	Thr	Ser	Ser	Lys	Pro	Ala	Ser	Thr	1	5	10	15
Ser	Gly	Lys	Ser	Glu	Leu	Ser	Ser	Lys	His	Ser	Arg	Ser	Leu	Lys	Pro	20	25	30	
Asp	Gly	Arg	Met	Ser	Arg	Thr	Thr	Ala	Asp	Gln	Lys	Lys	Pro	Arg	Gly	35	40	45	
Thr	Glu	Ser	Leu	Ser	Ala	Ser	Glu	Ser	Leu	Ile	Leu	Lys	Ser	Asp	Ala	50	55	60	
Ala	Lys	Leu	Arg	Ser	Asp	Ser	His	Ser	Arg	Ser	Leu	Ser	Pro	Asn	His	65	70	75	80
Asn	Thr	Leu	Gln	Thr	Leu	Lys	Ser	Asp	Gly	Arg	Met	Pro	Ser	Ser	Ser	85	90	95	
Arg	Ala	Glu	Ser	Pro	Gly	Pro	Gly	Ser	Arg	Leu	Ser	Ser	Pro	Lys	Pro	100	105	110	
Lys	Thr	Leu	Pro	Ala	Asn	Arg	Ser	Ser	Pro	Ser	Gly	Ala	Ser	Ser	Pro	115	120	125	
Arg	Ser	Ser	Ser	Pro	His	Asp	Lys	Asn	Leu	Pro	Gln	Lys	Ser	Thr	Ala	130	135	140	
Pro	Val	Lys	Thr	Lys	Leu	Asp	Pro	Pro	Arg	Glu	Arg	Ser	Lys	Ser	Asp	145	150	155	160
Ser	Tyr	Thr	Leu	Asp	Pro	Asp	Thr	Leu	Arg	Lys	Lys	Lys	Met	Pro	Leu	165	170	175	
Thr	Glu	Pro	Leu	Arg	Gly	Arg	Ser	Thr	Ser	Pro	Lys	Pro	Lys	Ser	Val	180	185	190	
Pro	Lys	Asp	Ser	Thr	Asp	Ser	Pro	Gly	Ser	Glu	Asn	Arg	Ala	Pro	Ser	195	200	205	
Pro	His	Val	Val	Gln	Glu	Asn	Leu	His	Ser	Glu	Val	Val	Glu	Val	Cys	210	215	220	
Thr	Ser	Ser	Thr	Leu	Lys	Thr	Asn	Ser	Leu	Thr	Asp	Ser	Thr	Cys	Asp	225	230	235	240
Asp	Ser	Ser	Glu	Phe	Lys	Ser	Val	Asp	Glu	Gly	Ser	Asn	Lys	Val	His	245	250	255	
Phe	Ser	Ile	Gly	Lys	Ala	Pro	Leu	Lys	Asp	Glu	Gln	Glu	Met	Arg	Ala	260	265	270	
Ser	Pro	Lys	Ile	Ser	Arg	Lys	Cys	Ala	Asn	Arg	His	Thr	Arg	Pro	Lys	275	280	285	

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Lys Glu Lys Ser Ser Phe Leu Phe Lys Gly Asp Gly Ser  
 290 295 300

<210> 341  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 341  
 Ser Gln Pro Lys Gln Ala Met Ser Pro Ser Val Ala Glu Cys Ala Arg  
 1 5 10 15

Ala Val Phe Ala Ser Phe Leu Trp His Glu Gly Ile Val Met Met His  
 20 25 30

Gly Leu Ser Ser Phe Leu Lys Phe His Pro Glu Leu Ser Lys Glu His  
 35 40 45

Ala Pro Ile Arg Ser Ser Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys  
 50 55 60

Glu Thr Lys Leu Glu Asn Arg His Ser Leu Glu Ile Ser Ser Ala Leu  
 65 70 75 80

Asn Met Phe Asn Ile Ala Pro His Gly Pro Asp Ile Ser Lys Met Gly  
 85 90 95

Ser Ile Asn Lys Asn Lys Val Leu Ser Met Leu Lys Glu Pro Pro Leu  
 100 105 110

His Glu Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser  
 115 120 125

Met His Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln  
 130 135 140

His Leu Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala  
 145 150 155 160

Ala Ser Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu  
 165 170 175

Lys Lys Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys  
 180 185 190

Lys Lys Lys Lys  
 195

<210> 342  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 342  
 Met Ser Pro Ser Val Ala Glu Cys Ala Arg Ala Val Phe Ala Ser Phe

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1                      5                      10                      15  
 Leu Trp His Glu Gly Ile Val Met Met His Gly Leu Ser Ser Phe Leu  
                     20                      25                      30  
 Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro Ile Arg Ser Ser  
                     35                      40                      45  
 Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr Lys Leu Glu Asn  
                     50                      55                      60  
 Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met Phe Asn Ile Ala  
                     65                      70                      75                      80  
 Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile Asn Lys Asn Lys  
                     85                      90                      95  
 Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu Lys Cys Glu Asp  
                     100                      105                      110  
 Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His Asn Thr Met Lys  
                     115                      120                      125  
 Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu Val Ala Phe Trp  
                     130                      135                      140  
 Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser Gln Asn Met Ile  
                     145                      150                      155                      160  
 Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys Lys Glu Cys Glu  
                     165                      170                      175  
 Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys Lys Lys Lys  
                     180                      185                      190

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 <213> Homo sapiens

<400> 343  
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                     1                      5                      10                      15

Ala Ser Phe Leu Trp His Glu Gly Ile Val  
                     20                      25

<210> 344  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 344  
 Ser Ser Phe Leu Lys Phe His Pro Glu Leu Ser Lys Glu His Ala Pro  
                     1                      5                      10                      15

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Ile Arg Ser Ser Leu Asn Ser Gln Gln Pro Thr Glu Glu Lys Glu Thr  
                   20                                  25                                  30  
 Lys Leu Glu Asn Arg His Ser Leu Glu Ile Ser Ser Ala Leu Asn Met  
                   35                                  40                                  45  
 Phe Asn Ile Ala Pro His Gly Pro Asp Ile Ser Lys Met Gly Ser Ile  
                   50                                  55                                  60  
 Asn Lys Asn Lys Val Leu Ser Met Leu Lys Glu Pro Pro Leu His Glu  
                   65                                  70                                  75                                  80  
 Lys Cys Glu Asp Gly Lys Thr Glu Thr Thr Phe Glu Met Ser Met His  
                                   85                                  90                                  95  
 Asn Thr Met Lys Ser Lys Ser Pro Leu Pro Leu Thr Leu Gln His Leu  
                   100                                  105                                  110  
 Val Ala Phe Trp Glu Asp Ile Ser Leu Ala Thr Ile Lys Ala Ala Ser  
                   115                                  120                                  125  
 Gln Asn Met Ile Phe Pro Ser Pro Gly Ser Cys Ala Val Leu Lys Lys  
                   130                                  135                                  140  
 Lys Glu Cys Glu Lys Glu Asn Lys Lys Ser Lys Lys Glu Lys Lys Lys  
                   145                                  150                                  155                                  160  
 Lys Lys

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